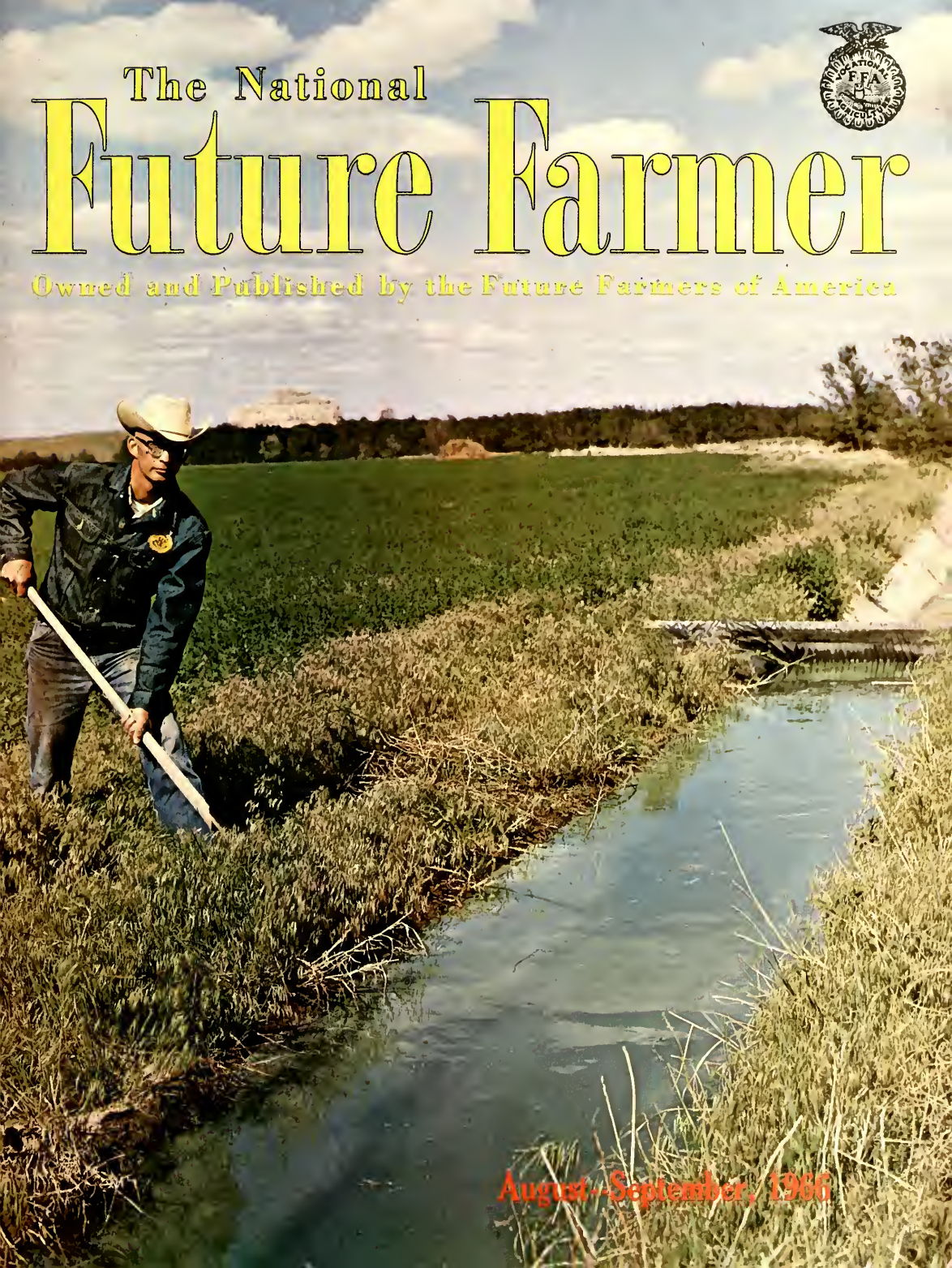
The National

Future Farmer

Owned and Published by the Future Farmers of America



August--September, 1966

If you like to shoot, you owe a lot to a genius named Henry.

B. Tyler Henry worked for us at Winchester over 100 years ago. And patented the repeating rifle which made Winchester famous. And the rimfire cartridge you use in your 22.

But Mr. Henry should see how we've improved 22 ammo since then. He'd hardly recognize his brainchild today.

The smokeless powder we use, for example, packs a lot more punch and burns cleaner. Our primers are now non-corrosive and non-fouling. And our bullets are actually lubricated so they handle cleanly, won't lead the barrel and shoot straighter.

And we've got bullet design down to a science. We now know exactly what shape and weight bullet to use to get the flattest, straightest trajectory.

Which brings up an important point.

When it comes to making 22 ammo who knows better than Winchester-Western? After all, we had a head start.

Just so you don't forget it, we stamp an "H" on all Winchester 22 shells.

(In honor of our Mr. Henry.)

Henry was here.

WINCHESTER® Western®

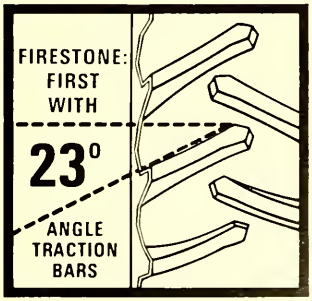
Firestone's New 23° Angle Traction Bar Tires Are Loaded With Extras

(Extra Traction—Extra Long Life)

Mount them single for top traction. Mount them dual for "on-top" flotation. Either way, Firestone's new 23° traction bar tires give you the exact angle you need for maximum pulling power. And the built-in stability of the 23° angle bars, combined with Firestone's exclusive Sup-R-Tuf rubber, means extra tire life . . . longer wear on the road. Firestone's rugged Sup-R-Lon cord construction gives trouble-free service—extra seasons of maximum traction.

Get 23° angle workpower for big tractors with the new Firestone Deep Tread tire—the one tire designed with the extra big bite you need with your highest horsepower equipment. Or get extra workpower at economy prices with Firestone Field & Road tires.

Only Firestone offers all these extra features in 23° angle tractor tires. Find out more at your nearby Firestone Dealer or Store. And ask about our convenient crop terms. Remember, to get more work done per hour—put your farm on Firestones. Sup-R-Tuf®, Sup-R-Lon®, Field & Road—Firestone TM



Firestone

QUALITY AND SAFETY COME FIRST AT FIRESTONE

The National Future Farmer
Owned and Published by the Future Farmers of America

AUGUST-SEPTEMBER, 1966

THE MAGAZINE FOR YOUNG MEN IN AGRICULTURE

VOLUME 14 NUMBER 6

In This Issue

FEATURES

25 Seven Steps To Success

FFA INTEREST AND MEMBERSHIP WERE AT A LOW EBB UNTIL THE PAULDING, OHIO, FFA CHAPTER CAME UP WITH A PLAN THAT WON THE MEMBERS A NATIONAL GOLD EMBLEM CHAPTER AWARD. IN THIS ARTICLE, CHAPTER REPORTER JOHN BLAKE TELLS HOW THEY MADE THEIR PLAN WORK.

28 Fence To Fit The Site

ANYONE WHO HAS BUILT FENCE KNOWS THAT IN SPECIAL SITUATIONS GENERAL FENCING METHODS OR RECOMMENDATIONS DO NOT MEET ALL NEEDS. THIS ARTICLE TAKES A LOOK AT SOME OF THESE SITUATIONS AND OUTLINES HOW TO ENGINEER A FENCE TO FIT EACH PROBLEM SITE.

32 Vo-Ag Teaching Career

FOR THE YOUNG MAN WHO HAS FINISHED HIGH SCHOOL AND IS PREPARED FOR COLLEGE, THERE ARE EXCITING OPPORTUNITIES AHEAD IN AGRICULTURE. YOU WILL PROBABLY WANT TO EXAMINE AND CONSIDER THE ADVANTAGES OF EACH. THIS ARTICLE OUTLINES THE MANY UNIQUE ADVANTAGES OF YOUR BECOMING A VO-AG TEACHER.

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Our Cover

Ronald Kennedy of Bridgeport, Nebraska, knows from experience that irrigation can boost yields and profits. His farming know-how earned him the American Farmer Degree.

Also note the two buttes in the background. The larger one is called Court House and the smaller one Jail House. They were important landmarks along the Oregon Trail.

PHOTO BY C. A. CROMER

THE NATIONAL FUTURE FARMER is mailed every two months on the following dates:

January 20	**FEBRUARY-MARCH** Issue
March 20	**APRIL-MAY** Issue
May 20	**JUNE-JULY** Issue
July 20	**AUGUST-SEPTEMBER** Issue
September 20	**OCTOBER-NOVEMBER** Issue
November 20	**DECEMBER-JANUARY** Issue

ADDRESS ALL CORRESPONDENCE TO: *The National FUTURE FARMER*, Alexandria, Virginia 22306. Offices are located in the Future Farmers Building on U. S. Route One, eight miles south of Alexandria.

The National FUTURE FARMER is published bimonthly by the Future Farmers of America at Alexandria, Virginia 22306. Second class postage paid at Washington, D. C. Copyright 1966 by the Future Farmers of America. This issue published in national and regional editions.

Single subscription is 75¢ per year in U. S. and possessions. Foreign subscription, $1.00 per year. Single copies, 20¢ in U. S.

CHANGE OF ADDRESS: Send both old and new addresses to Circulation Department, *The National FUTURE FARMER*, Alexandria, Virginia 22306.

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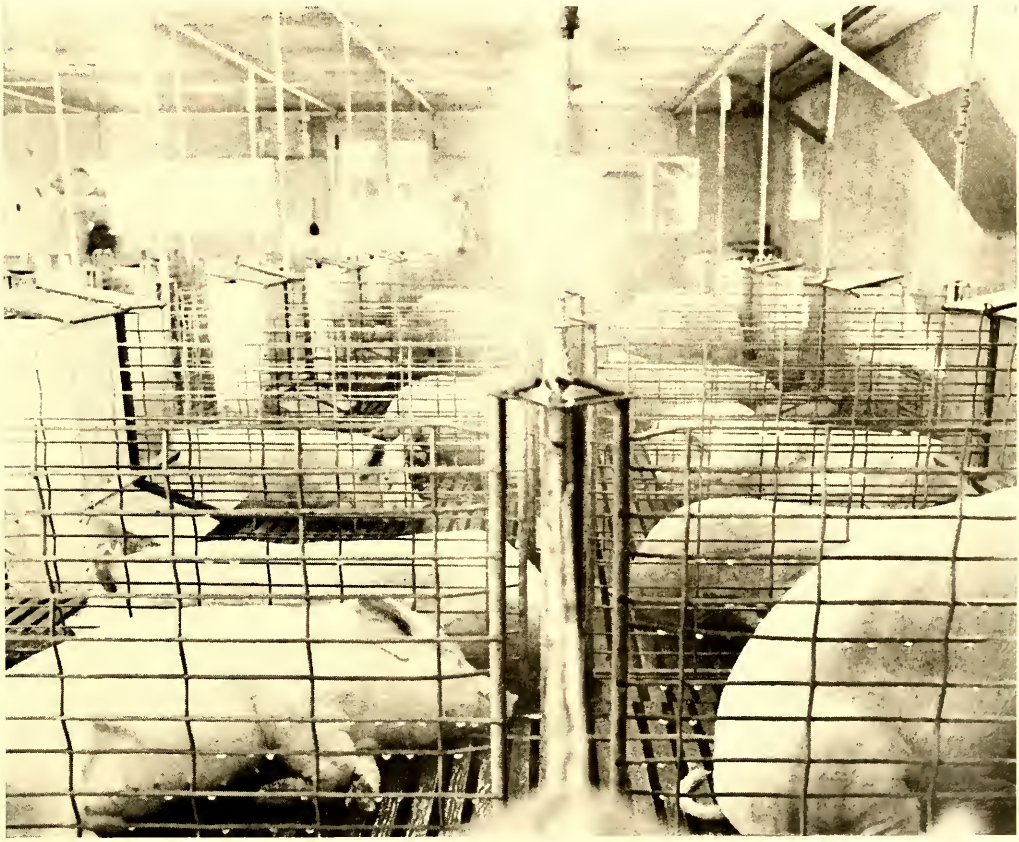
CAN HOGS PAY FOR ALL THIS?

Foggers to keep them comfortable in hot weather. Insulated walls and controlled ventilation to keep them comfortable in cold weather. Slat floors to keep them clean. A lagoon underneath to dispose of the manure. Specially constructed metal pens that come apart easily.

Can hogs really pay for all of this "luxury," or should we put them back on pasture and cut out this expense?

We're giving this management system a thorough testing at the Purina Research Farm and will let the *net profit figures* give us the answer. As soon as we get the answer, every Purina dealer across the country will have it so he'll know how to advise his customers.

And that's how the benefits of practical Purina Research get out to livestock and poultry feeders everywhere.



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PURINA CHOWS

begins with your local Authorized WISCONSIN ENGINE Service Station

AUTHORIZED — That's what sets your Wisconsin Engine Service Station apart from the order takers. You see, we're extremely hard-nosed about providing you with prompt, competent total service when you need it.

Our requirements are stiff. Your Authorized Wisconsin Engine Service Station *must* stock Wisconsin-engineered parts for all Wisconsin models, 3 to 60 hp, to prevent or minimize emergencies. You can rely on it for replacement engines. Your engine is serviced by factory-trained mechanics to assure traditional Wisconsin performance and dependability. And we keep on training them so that your engine gets the best of care, in the quickest time, at reasonable cost.

Get to know the Authorized Wisconsin Engine Service Station in your area for "off-the-shelf" parts and for factory-approved repairs. Send for Directory S-198 and Parts Guide S-350. Write to Department F-156.

WISCONSIN
MOTOR CORPORATION
MILWAUKEE, WISCONSIN 53246
World's Largest Builder of Heavy-Duty Air-Cooled Engines — 3 to 60.5 hp.

F-756

Your Editors Say...

FUTURE FARMERS and their advisors attending the National FFA Convention this fall will find a new feature has been added for their benefit. National trade associations and professional societies serving the industry of agriculture have been invited to participate with an educational exhibit depicting the career opportunities in agriculture. Several have already indicated they plan to take part.

The purpose of these educational displays is to provide FFA members and advisors the opportunity to become familiar with the many career opportunities available through vocational agriculture. The aim is to supply information about specific agricultural occupations. The exhibits will show the kinds of jobs available and outline the education and experience required for entrance into the respective fields. Exhibitors will have a qualified person on hand, while the booth is open, for consultation and answering questions. Also, appropriate booklets and literature will be available to hand out on request.

The exhibit area will be on the mezzanine level of the Municipal Auditorium, adjacent to the convention registration. The area will be open Tuesday afternoon, October 11, from 1:00 p.m. until 5:00 p.m., Wednesday and Thursday from 8:00 a.m. until 5:00 p.m., and on Friday from 8:00 a.m. until 1:00 p.m.

In commenting on the exhibit idea, National FFA President Howard Williams told a group of association representatives recently, "The FFA is made up of nearly 450,000 members in 9,100 local chapters who have decided they want a career in agriculture. These exhibits will provide them with an educational stimulus."

The latest membership report issued by the national organization shows that FFA closed out the fiscal year ending June 30 with 445,386 members. Texas continues to hold the position of the largest state association with 48,831 members. The next largest associations, listed in order, are North Carolina, 30,150 members; Georgia, 23,084; Alabama, 22,070; Tennessee, 18,220; Arkansas, 17,984; Oklahoma, 16,793; and Illinois, 16,196. The smallest state association in terms of membership is New Hampshire with 285 members; followed by Rhode Island with 348; Delaware, 414; and Nevada, 510 members.

Two new films were recently previewed in Washington, D.C., which may be of special interest to FFA members. "An 'A' for the BC Way" is a 16 mm, 22-minute color film featuring an FFA member presenting a term report to his highly-critical social science class covering both the "what" and "why" of farmer co-ops, plus how they are financed through the banks for cooperatives. A print of this film can be borrowed through any of the banks for cooperatives, or by writing the Farm Credit Administration in Washington, D. C.

The other film, "Credit to Grow On" demonstrates how one good farmer becomes a better one through the wise use of credit. This film may be borrowed from any Federal intermediate credit bank, or through the Information Services, Farm Credit Administration, Washington, D.C.

Wilson Carnes
Editor

"Time is my bread and butter. I can't waste it waiting for gasoline."

Farmer John Falcone said it. He owns 8 farms in the Dunkirk, New York, fruit belt. Raises string beans, tomatoes, grapes, strawberries, and currants. Three generations of Falcone farmers run the business—grandfather Joseph who founded it; his sons, John and Joseph, Jr., and grandson Joseph III. They look after 26 pieces of machinery on their farms. Get a big hand from their Texaco Farm Service Distributor who keeps them supplied with fuel, lubricants, and good advice.

"When my crops are ready, I have to be ready," says John Falcone. "We move fast at harvesttime. There's no time to sit around and wait for gasoline. Happened to me once and I didn't enjoy it. It won't happen again.

"I leave it to Dick Proper, my Texaco Farm Service Distributor, to see that it doesn't. He keeps an eye on our fuel supply—delivers well in advance. Even makes deliveries when we don't call him.

"He helps us in many other ways, too. Gives us good service. And top-quality Texaco products that keep my machines ready for work—and keep them working longer. He's got the right fuel, oil, and grease for every piece of equipment we use."

Helping farmer-customers do business at a profit is the business of your Texaco Farm Service Distributor. Give him a call for the money-saving, fuel-saving, engine-protecting products you need—Texaco products. He delivers *on time.*

Trust Texaco Farm Service

TEXACO Farm Service

Here are some of Texaco's top-quality petroleum products for the farm: 1. Marfak Multi-Purpose lubricant. 2. Havoline and Ursa Motor Oils. 3. Multigear Lubricant EP. 4. Regal Oils for hydraulics. 5. Famous Fire Chief gasoline and Texaco Diesel fuel.

Looking Ahead

Livestock

HOGS—The U. S. 1966 pig crop will not only be well above last year's, but will be the largest since 1963 (if the farmers carry out their June-November intentions) according to the USDA's crop reporting board. The report says the pig crop will run about 88.8 million head, which is up 10 percent from 1965.

Swine producers may be feeding sows too much protein during the gestation period, according to Dr. E. R. Peo, Nebraska swine nutritionist. A crude protein intake of approximately one-half pound per head per day appears adequate for gilts, the nutritionist says.

DAIRY—An effective treatment for bovine ketosis (a disease that strikes cows during the stress of milk production) has been reported by Dr. L. A. Davey, head of animal research, Therapeutics Research Division, Sandwich, England. The treatment is a single 20-milligram injection of Methral which appears to be sufficient to correct blood glucose deficiency in dairy cattle. Low glucose level is a major factor in bovine ketosis.

U. S. milk production continues to skid. Though May output, at 11.7 billion pounds, may appear high, it was the lowest for the month since 1940. It marked the fourteenth consecutive month that output has been below year-earlier levels.

POULTRY—Egg washing has been one of the most controversial practices in the poultry industry. At last, however, it appears that the culprit causing egg spoilage after washing has been isolated. The presence or absence of iron in the wash water makes the difference, according to Dr. E. O. Essary, Virginia poultry specialist. Where iron is present in large quantities, it is advisable to have water-softening equipment.

BEEF—A device that gives a measured insecticide spray several times a day over a concrete finishing lot has been developed by a University of Kentucky entomologist. Dr. Fred Knapp says the device works off a water line. It runs water through a container of pelleted insecticide and then sprays it as a fine mist over the pens. Control of flies in test pens last summer was excellent.

Crops

A HIGH PROTEIN CORN—Purdue researchers have revealed that a mutant gene called opaque-2 has produced corn of higher lysine content, thus giving the corn a higher than usual protein content. The experimental corn raised at Purdue contains nearly double the lysine content of corn hybrids currently produced. Pigs fed the corn gained 3.6 times faster than weanling pigs fed regular corn. They also discovered that 130-pound pigs fed the new corn required no protein supplement. Human feeding tests are now underway. Many believe the new corn will be a major weapon in the war against hunger.

FRUIT FLY DISCOVERED—The discovery of a single Mediterranean fruit fly in a survey trap at Brownsville, Texas, has touched off an intensive detection effort to determine whether this is an isolated find. This is the first time that the "Medfly" (considered to be one of the world's worst pests of citrus and other fruit and vegetable crops) has ever been found in Texas.

TILLAGE DISCOVERY—Clarence Hanks, a Virginia dairyman, has come up with his own variation of the wheel track corn planting method. He turns the soil once with a turnplow then plants in the track of a crawler tractor. He uses a trailer-type planter with hydraulic controls and post-emergence weed control chemicals. He says, "I got the idea one day when a truck broke down in the field. We used the crawler tractor to get it out, and I noticed the perfect seedbed it left."

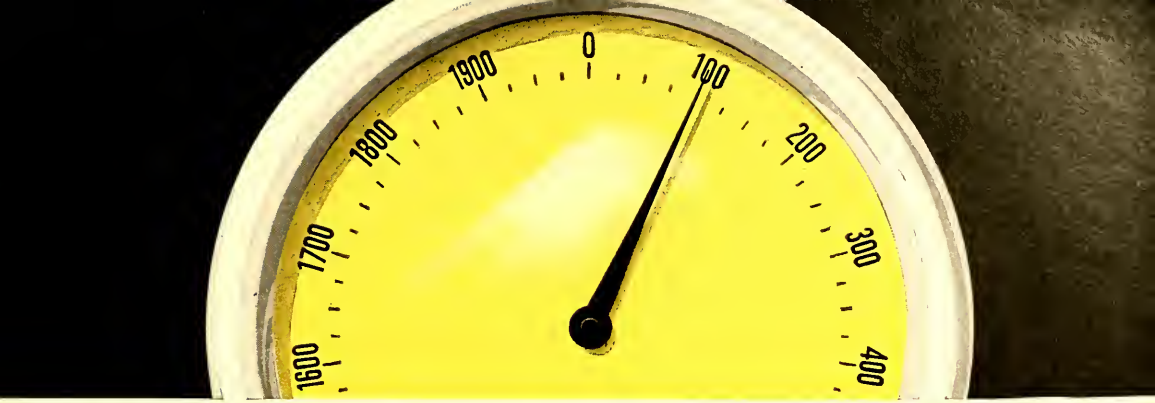
Machinery and Buildings

SMV EMBLEM BEING MISUSED—A number of misuses of the new Slow-Moving Vehicle emblem have been reported. It has been noted that the emblem has been used for marking road construction, mailboxes, and even the rear of trucks. This is contrary to the purpose for which the bright red-orange triangle was developed, which is to mark vehicles that are designed to travel at 25 miles per hour or less.

NEW RIG FOR COTTON INSECTICIDES—The design and successful testing of a new rig to apply systemic insecticides to cotton was described at the recent meeting of the American Society of Agricultural Engineers. The new tractor-mounted applicator uses twin rotary nylon brushes to apply the insecticide near the bottom of the main stem. Studies show such application is much more efficient than soil application.

TURBOCHARGER PRODUCES EXTRA TRACTOR POWER—Turbocharging the farm tractor diesel engine results in more economical farming, Hugh MacInnes of TRW, Inc. told agricultural engineers at their annual meeting. He stated that 20 drawbar horsepower can be added to a 100 horsepower diesel tractor at a cost of about $500. "This means," he explained, "that if the original tractor was pulling a five bottom plow of a given size and depth, this can now be increased to a six bottom plow with a higher average ground speed."

BREAKTHROUGH IN WET CORN STORAGE—The farmer no longer needs to be concerned with outdoor temperature when he combines his corn because of a new high-moisture corn storage unit that will condition corn at low temperatures. University of Illinois research has proven that with hot corn, more moisture is taken out immediately when it enters the electrically-cooled Frigidome. With such a unit, a farmer would not be forced to sell at harvest time simply because of his inability to hold wet corn.



FIGHT THE HIGH COST OF HEALTHY GAINS

with the Milk-Bank nutrition of Kraft Feed Boosters

Here's their bank of milk nutrients: dried whey, delactosed whey, hydrolyzed whey, cultured whey, cheese.

Sure, if money were no object, you could get fast, healthy gains easily. The trick is to do it *without* adding to your feed cost, and if possible, cut your cost per pound of gain.

It *is* possible with Kraft Feed Boosters—Pex products for poultry, Kraylets pellets and Kraft Pig Pre-Starter for swine, Kaff-A products for dairy and beef cattle, and Nutri-Plus Boosters for sheep. And, to give horses extra bloom, gloss, and vigor, you can use Pace Pellets.

These feed boosters give animals nutrients that ordinary rations don't usually provide: milk nutrients rounded out with other important ingredients. With the lactose, protein, minerals and vitamins that the milk nutrients supply, any ration will produce more healthy gains more efficiently. Here's why:

LACTOSE—HARDWORKING CARBOHYDRATE

The Milk-Bank Boosters provide lactose, a hard working carbohydrate, especially important for young and growing animals. It outperforms all other sugars, giving you a better rate of gain with fewer digestive upsets.

In addition, lactose promotes acidity in the digestive tract, keeping it clean and healthy. And with lactose in the ration, animals absorb and use more calcium, phosphorus, and magnesium.

PROTEIN RICH IN AMINO ACIDS

Protein is another key element in the Milk-Bank. Lactalbumin and casein are among the richest in essential amino acids, ideal complements to grain protein.

They promote animal health and growth, help build soft tissues and disease-fighting antibodies.

BONUS IN MINERALS AND VITAMINS

Milk-Bank Feed boosters offer a good supply of minerals, too: calcium, phosphorus, potassium, sulphur, and magnesium plus trace elements such as manganese, iodine, copper, iron, and cobalt.

The vitamins—members of the B complex—in these feed boosters supply added nutrition and reduce the need for vitamin supplements. Finally, Milk-Bank feed boosters provide unidentified growth factors which stimulate growth and improve over-all feed efficiency.

Feed rations that work harder and bring out the best in your stock—rations that include the Milk-Bank Boosters by Kraft. Ask your dealer or write for Kraft Research Proved-Farm Tested feed formulas now. Kraft Foods Agricultural Division, Dept. 19, 500 Peshtigo Court, Chicago, Ill. 60690.

KRAFT

...where better nutrition starts with milk

"Couldn't have worked out better if I'd planned it."

"'What are you going to be?' they kept asking me all through my senior year in high school.

"I didn't know. But I did know I wasn't going to take any old job or try for college until I had plans. And I didn't want to just hang around until I made up my mind.

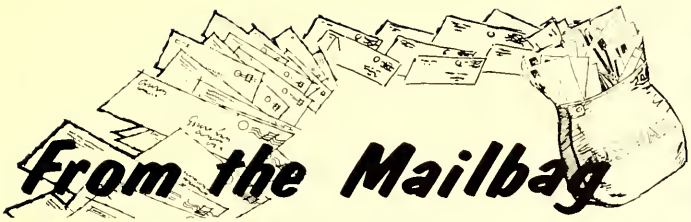
"I talked to the other guys, my family...everyone. Then I talked to the Army Recruiting Sergeant. And that was the smartest thing I ever did. He didn't try to pressure me. He just answered my questions. With his help, I enlisted for training as a data processing equipment operator.

"It turned out I was a natural for it. Picked it up with the help of some of the best teachers I ever came across. And now I'm an expert in something that will mean good jobs the rest of my life."

An Army enlistment has been the turning point for many men. It can be for you. It can give you the chance to learn any one of over 300 skills, skills you can build your life on. You can travel to countries and places you might never see otherwise. And you'll be proud of what you're doing.

Look into what the Army has to offer. You'll find there's more for you in today's action

Army



Gap Mills, West Virginia

Enclosed is a coupon for the free material offered in the June-July issue of your magazine.

All articles are well written, interesting, and informative to read. This is my second issue of your magazine, and I enjoy it very much. I hope you continue to publish it for many years to come.

Marvin Hylton, Jr.

Beaver, Utah

I think the advertisements are very good. They are clean, current, and of interest.

I think the magazine is good, and I have enjoyed it. Our class has been working on livestock judging, and we have had trouble getting beef judging pictures. I think it would be nice to have beef, dairy, sheep, and swine judging pictures. Could you help?

Eddie Bradshaw

Eddie, by now your vo-ag teacher has received his June, 1966, issue of "Between The Furrows" Newsletter, which offered free and inexpensive teaching materials. One item was a set of photographs of four classes of horned Herefords which are available on 35 mm slides. Printed reasons and placings come with the set. The classes are senior yearling females, junior bull calves, spring bull calves, and steers. The set is available on loan basis for return postage, or a class can be purchased for $3.50 from the American Hereford Association, 715 Hereford Drive, Kansas City, Missouri 64105. It would have to be ordered by your vo-ag teacher.—Ed.

Bien Hoa, Vietnam

I received my copy of *The National FUTURE FARMER* which was forwarded to me by my parents in Chillicothe, Missouri. Although I am not actively engaged in farming, I still find the magazine very educational.

Since I have been in the Air Force, the articles and stories about successful young men have been a valuable and treasured inspiration to me.

Your magazine is always most welcome in my mailbox.

David Walker

Canton, Minnesota

I felt the article "I Quit School" was very good because it will help other dropouts who read the article to reconsider and possibly influence them to go back to school. Those who have not dropped out but have been considering it will, hopefully, realize the need for a high school diploma.

Name Withheld on Request

Cody, Wyoming

I have been in FFA for three years. I enjoy the "Mailbag" section. I'm very much against smoking in your FFA jacket. Also, if the FFA jacket is to be respected, it should be zipped up whenever it is worn. I am president of our chapter, and I am always reminding the members to keep their jackets zipped up.

Bill Bapst

Minneapolis, Minnesota

The FFA public speaking program plays a very important role in the present and future lives of FFA boys, and I feel very strongly that each chapter should encourage a lively competition among its members.

In support of the effectiveness of FFA programs, I offer this personal experience: A few weeks ago I spoke at a PTA meeting in southern Minnesota. The ease and efficiency with which their president conducted the meeting so impressed me that I was compelled to commend him on this. Being convinced that he was a member of the faculty, I inquired about the subjects he taught. He chuckled and informed me that he was a farmer with no education past the high school level. His only training in public speaking and parliamentary procedure was what he had gained as an FFA member.

Bill Hopkins
Field Representative
Minnesota Society for
Crippled Children and Adults, Inc.

Lampasas, Texas

The parliamentary procedure section in *The National FUTURE FARMER* is an excellent idea. Congratulations on a very useful service.

Jack Lacy
Advisor

Oconto, Wisconsin

I would like to comment on the fine magazine you publish. The articles are very good, and the whole family enjoys it. I frequently use it for reports in vo-ag.

Neil Noack

Lamont, Washington

I would like very much for you to send me the five free booklets which are offered in the February-March issue.

I really enjoy reading *The National FUTURE FARMER*. It gives many ideas for the chapter, and I can find out what is going on in the FFA throughout our national organization. I especially enjoy reading the articles about the Star Farmers and the national officers.

Tom Dechenne

Here's how to find out what the Army can do for you

The quickest way is to go see your local Army Recruiter. **He'll answer any questions you have about your opportunities in the Army. If he doesn't have an answer right there, he'll get it for you.**

And it'll be a straight answer. After all, it's his job to be sure the Army's the right place for you. He knows where the opportunities are...and can tell you where you'll fit in.

You can easily find your local Army Recruiter listed in your telephone book. Call him today. And, in the meantime, fill out this coupon and you'll receive a copy of the helpful and informative 40-page booklet, The Secret of Getting Ahead. No obligation on your part, of course.

Army NFF 8-66
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Please rush me your
40-page booklet,
"The Secret of Getting Ahead."

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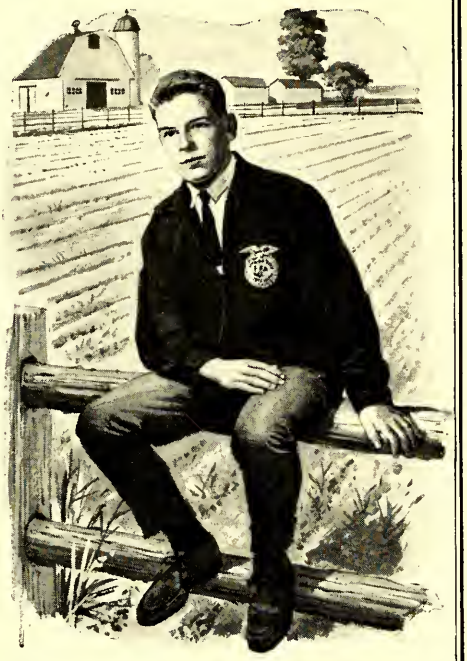
EDUCATION _____



On the fence about your future?

Future uncertain? Undecided about your career? Just sort of sitting on the fence trying to make up your mind? Perhaps reading this will help you to decide.

No doubt, as an F.F.A. member, you have given some thought to a future in agriculture. But have you ever considered the advantages of joining a fine company closely allied to the great agricultural industry? The d-CON Company, Inc. is just that kind of company.

d-CON is the manufacturer of America's largest selling rodenticides and fastest growing line of insecticides. It is a dynamic, growing, expanding company and you can grow with it.

Right now d-CON is offering an opportunity to young men who love agriculture and want to sell. No previous experience is necessary. Personal interviews are being arranged. If you are selected, you will receive a complete training program, earn a good salary, be provided with a new car and travel throughout the United States at d-CON's expense.

If you are a high school graduate, single, sales-minded, like to travel and are interested in a career with a modern, progressive, growing company, d-CON invites you to write. Simply send a letter to:

Mr. Frank A. Corbet, President
The d-CON Company, Inc.
90 Park Avenue, New York, N.Y. 10016

Why not get off the fence and contact d-CON? It may well be the most rewarding decision you've ever made!

NATIONAL PRESIDENT ISSUES CALL TO FFA CONVENTION

TO MEMBERS OF THE FUTURE FARMERS OF AMERICA:

As your national FFA president, I am issuing a call for all state associations to send delegates to the 39th National Convention, which will be held in the Municipal Auditorium, Kansas City, Missouri, October 12-14, 1966.

The convention will have a fitting introduction with a Vespers Program Tuesday evening, October 11. Offering many highly-respected personages and inspirational speakers, the convention sessions are planned to execute business, recognize outstanding achievements, demonstrate and promote leadership training, elect new officers for next year, set new goals, and to leave every FFA member and adult with a renewed dedication to the aims and purposes of vocational agriculture and the FFA. Each session will be very meaningful, therefore, I urge attendance at all sessions.

All chartered state associations in good standing with the national organization are expected to send two official delegates and two alternates from the active membership. Official delegates should arrive in Kansas City for the 10:00 a.m. delegate registration, which will be followed by the Officer-Delegate Luncheon at 11:45 a.m. on Tuesday, October 11. A short briefing session on organizational matters will follow with convention committees meeting that afternoon. State associations should also have in attendance at the convention those candidates recommended for the American Farmer Degree, candidates for national office, those members who are to receive awards, and others who have official business at the convention.

Local chapters are encouraged to send representatives to the national convention. Chapters are entitled to a maximum of six (or ten percent of the total membership, whichever is greater) carefully selected members to attend the convention, provided they come to Kansas City with properly completed official registration cards. This number does not include national or regional award winners, ushers, or special participants. When you receive your brochure "You . . . and Your National FFA Convention," I encourage you to review it with your advisor. To many people, the FFA jacket is a symbol of our organization; I encourage each representative to wear his jacket properly at all official convention activities.

The 39th Annual Convention will be the high light of our FFA year. I urge all FFA members who attend the convention to be present at all sessions from Wednesday morning through Friday evening, October 12 through 14. With the help and cooperation of all present, our convention will be a great success. I look forward to seeing you in Kansas City.

Howard Williams

National FFA President

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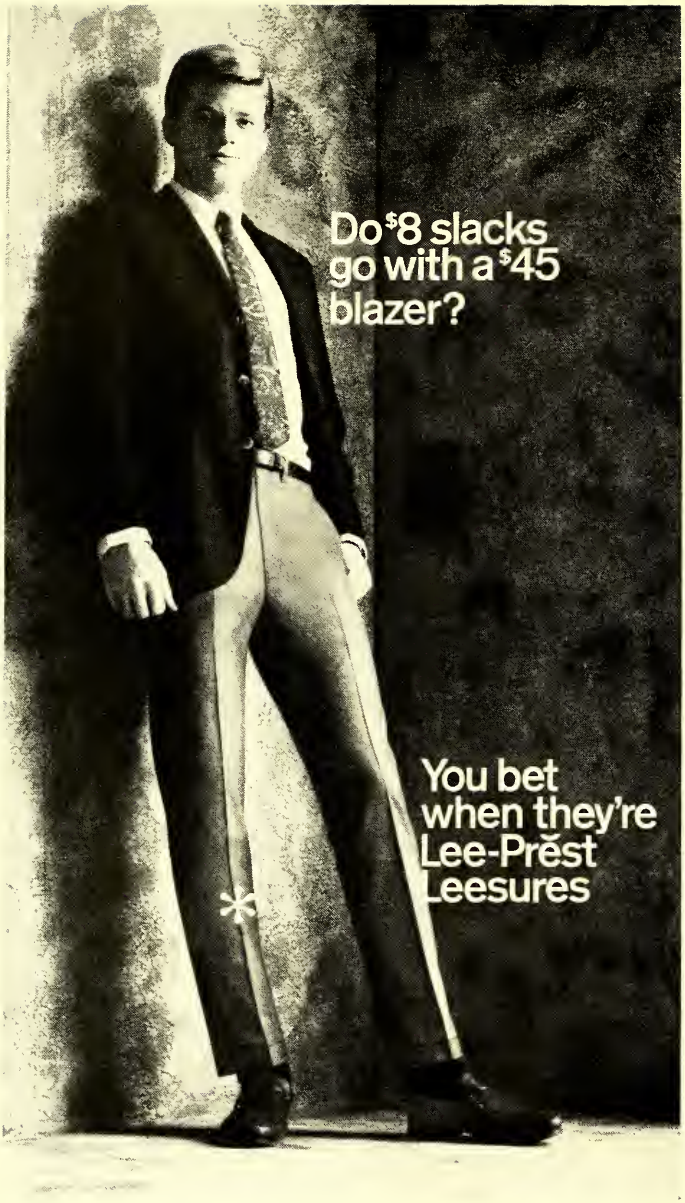

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FFA Donors To Meet in Washington

FFA DONOR DAY has come to be an important event each year. This is the day the donor representatives to the Future Farmers of America Foundation come to Washington, D. C. for their annual meeting with the Board of National FFA Officers and the Board of Trustees of the Foundation.

A record attendance of donor representatives is expected at this year's meeting to be held at the Washington Hilton Hotel in the nation's Capitol. The highlight speaker for the noon luncheon will be Florida's Commissioner of Agriculture Doyle Conner, a former national FFA president.

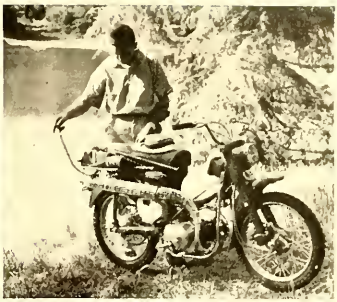
Mr. Byron J. Nichols, FFA Foundation Sponsoring Committee chairman, is scheduled to report on the highlights of the Foundation's activities during the first six months of 1966. Mr. Nichols is vice president and general manager of the Dodge Division of Chrysler Motors Corporation.

Mr. Orion Samuelson, farm service director for Chicago station WGN, will speak at the morning session on the topic "Training Needs of Youth for Employment in Agriculture."

Other speakers for the "Donor Day" program include Mr. M. G. O'Neil, president of The General Tire and Rubber Company and vice-chairman of the FFA Foundation Sponsoring Committee; Mr. H. N. Hunsicker, national FFA advisor; and Howard Williams, national FFA president.

The Future Farmers of America Foundation was organized in 1944 to provide business, industrial, civic, farm, and service organizations, as well as individuals, with an opportunity to cooperate in furthering the FFA program. During 1965, over 400 donors made contributions to the Foundation in the amount of $221,415.68. This is an increase of nearly $10,000 over 1964 contributions.

Actually the Foundation provides, on a nationwide basis, prizes and financial awards to deserving FFA members who have achieved distinction in their supervised farming programs, scholarship, and rural leadership. More than 80,000 farm boys received Foundation awards in 1965. In terms of individual chapter awards, the bulk of these was in the form of recognition medals. Each local winner is a potential candidate for national honors as the Foundation awards programs continue up through state, regional, and national levels.



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FFA PRESENTED FREEDOM AWARD

Senator Strom Thurmond, center, awards the Freedoms Foundation Honor Medal to FFA.

THE FUTURE FARMERS of America has been honored for its contribution to the American way of life by the Freedoms Foundation of Valley Forge and awarded the George Washington Honor Medal. Senator Strom Thurmond presented the medal to Howard Williams who, as national FFA president, accepted the honor on behalf of all 454,000 members. Senator Thurmond, a trustee of the Foundation, began his career as a vocational agriculture teacher in South Carolina. Dr. Kenneth Wells, left above, president of the Freedoms Foundation at Valley Forge, pointed out that the FFA received this recognition for its program "AGRICULTURE — Our American Heritage." This theme was emphasized during National FFA Week in 1965, which is celebrated during the week of George Washington's birthday. The objective of the award is to honor programs to improve public understanding and appreciation of the basic constitutional rights, freedoms, and corresponding responsibilities inherent in the American way of life.

For the Agricultural Hall of Fame

WILLIAMSFIELD, ILLINOIS. Future Farmers Rex Gibbs and Terry Miller and their advisor, James Guilinger, presented two rare farm implements to the Agricultural Hall of Fame curator, Elmo Mahoney, in Bonner Springs, Kansas. A horse-drawn, sulky type gang plow and a riding cultivator were repaired, restored to their original condition, and delivered to the Center 1,200 miles from the Illinois chapter.

The restoration job represents a cooperative effort by the FFA chapter and the John Deere Company, Moline, Illinois, manufacturer of the implements. The company provided missing parts, paints, and manuals on the machines which were built in 1910. Both of these implements are considered valuable additions to the Center's collection.

The Center's curator also revealed that FFA chapters throughout the country have been enlisted in a nationwide search for a hand-tied binder and a wire-tied binder which would complete the story of the grain harvest from the sickle to the first combine.

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...and a hard bargain

National FFA winner, Charles Davis, meets the president of the National Soil and Water Conservation Districts.

CHARLES DAVIS, ALACHUA, Florida, is a National FFA Foundation award winner. During four years of vocational agriculture, the assets earned from his farming program have grown by leaps and bounds. However, he has earned assets from more than his farming program. Therein lies an unusual story of achievement.

The bonus assets were earned from what Charles calls his "farm betterment program." He explains, "I feel that soil and water conservation are very important to our operation, because we are located in an area that has a wet type of soil. It is reasonably flat and can become very wet if not managed properly. Managed properly, however, these characteristics of our farm can become assets by providing springs and ponds for crop irrigation in time of need."

The successful development of this conservation program has earned young Davis national recognition as FFA's Star Soil and Water Management winner. He was awarded a $250 check during the 1965 National FFA Convention in Kansas City. Proficiency in soil and water management is recognized on a chapter, state, and national basis with awards from the Future Farmers of America Foundation.

Charles' winning added to the distinction of the Santa Fe Chapter at Alachua, which had already won the national award for farm safety (see December-January, 1965-66). Santa Fe Chapter was the only chapter to receive this unique dual recognition from the National FFA Foundation. Charles is the son of Mr. and Mrs. Alvin Y. Davis. His FFA advisors are F. D. McCormick and Kenneth Lee.

The Davises live on a 460-acre farm, eight miles north of the town of Alachua. The farm is class II land of which 320 acres have been cleared and are suitable for cultivation.

BUILDING Soil

Charles says proper pond management is a necessity. He uses a hand sprayer to control weeds around the ponds.

Charles relies on soil analysis recommendations so that he gets efficient results from fertilizer applications.

The remainder of the farm is covered by slash pine and hardwood timber. Major productive enterprises include tobacco, beef, hogs, and corn for grain. In addition, some cucumbers, snap beans, squash, and peppers are marketed.

Charles developed a four-pronged approach for reaching the objectives he had outlined in his farm betterment program. These included the clearing of land for production, flood control, farm pond development, irrigation, and proper fertilization.

To meet the first objective, Davis learned to operate the family's D-7 and D-8 caterpillar bulldozer. The clearing operation involved the removal of trees and stumps, as well as the construction of drainage ditches to provide the rapid removal of excess water during Florida's rainy season. "It's certainly hard work," Charles explained. "Because each time the newly claimed soil is tilled, additional roots and limbs are turned to the surface. Whether the land is used for vegetable crops, field crops, pasture, or recreation, continual removal is required."

Charles can point with pride to the assets of his flood control program. At several points around the farm, his work is clearly visible. Due to the flood control program, for example, 30 acres located near a swamp were completely reclaimed by Charles. He explains, "This swamp frequently overflowed, preventing planting or cultivation. Worse yet, if it overflowed during the growing season, it would drown the crop or cause a mature crop to decay. We used a dragline to dig a ditch that would permanently drain the swamp into a creek which would flow into a reservoir for water storage and recreational activities."

At another point, Charles used the dragline to make an artificial stream to keep farm roads from flooding. At strategic points along the route, he also installed concrete culverts. While the road is not a super highway, it is firm and dry during the heaviest rain storms.

The farm pond system that Davis has developed earns triple assets for his farming enterprise. Each of the six ponds are designed to be used for recreation, irrigation and storage of water to prevent erosion, and to maintain a desirable farm water table. "On each pond, we have done work to make them functional," Charles pointed out. "We apply gypsum to flocculate colloidal materials so that the water will be suitable for bream, bass, catfish, and perch. Two portable pumps, powered by internal combustion engines, are used to pump the water from farm ponds to crops."

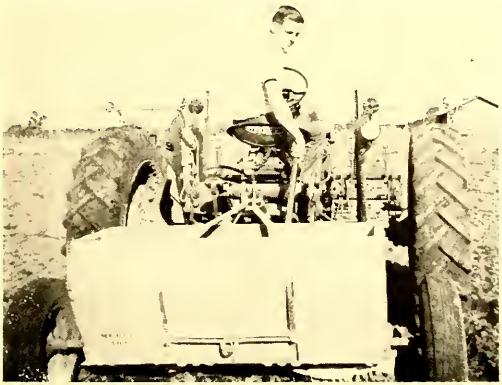
The final step in Charles' farm betterment program is the proper fertilization of all crops. "Lime and fertilizer are two essentials in any conservation program," he explained. By carefully following soil test recommendations, he has achieved significantly more efficiency from his fertility program. He adds approximately 100 tons of fertilizer to the farm each year.

Charles has also won statewide FFA honors in crop farming and farm mechanics. Outside the FFA he has been a member of the football team, the Farm Bureau, and president of his Sunday school class.

In the future, Charles plans to enlarge his partnership with his father and continue farming. "I feel the investments I have made in soil and water conservation will serve as assets to insure my future in the business of farming," he concluded.

and Water Assets

Lime and fertilizer are essentials in any conservation plan. Charles helps apply 100 tons a year on the farm.



Charles makes good use of Hairy Indigo—a soil holding plant—with row crops and on banks of drainage ditches.

RATIONS | Formula Feed or Mix It Yourself?

IF YOU RAISE livestock or produce milk, you know that feed is your big expense item. The first and most difficult decision you'll face is deciding whether you should formulate your own rations or formula feed.

It's not an easy choice. For example, Dr. Robert W. Gardner of the University of Arizona's dairy science department only recently cited research to prove that a dairyman can formulate his own calf starter ration of the proper nutritional value at less than half the cost of some formula calf starters (see Table 1.). Cost of this "simple" ration was $70 per ton, compared to $190 per ton for the formula rations. In fact, calves on the simple formula reached 200 pounds eight days before those on the much more expensive formula rations. The clincher, according to Dr. Gardner, (in addition to the cost comparison) is the fact that the calves preferred it and made their best gains on the simple formula.

On the other hand, Dr. Francis Wingert, chief swine specialist at the Cargill-Nutrena research farm, has just completed a study in which he concludes, "Do-it-yourself feeders forfeit quick hog gains." In this study he measured the effect of diet variations on rate of gain, feed conversion, and carcass quality in four alike groups of pigs. Here are the results of the demonstration:

The group fed the formula program gained more than 1.5 pounds per day, reached market weight in 155 days, and required 319 pounds of feed per 100 pounds of gain.

The group on half the recommended concentrate gained 1.3 pounds per day, took 181 days to reach 200 pounds, and averaged 367 pounds of feed per 100 pounds gained.

On corn and soybean meal, pigs gained less than a pound per day and required 268 days to reach market size. They ate 394 pounds of feed per 100 pounds gained. Note that the formula group gained almost twice as fast as this group.

The group fed corn and mineral would not have gone to market at all if they had been left on that menu.

Dr. Wingert said the demonstration reaffirmed still another advantage of following formula feeding programs: carcass quality of the quick-gain pigs was superior to that of the other groups.

As these two examples indicate, there is no simple rule of thumb for you to use in determining whether you should formula feed or make it yourself. There are, however, some guidelines that will help you evaluate alternatives like these for your farm. Consider these:

- Anyone who decides to make it himself has important costs in addition to ingredients. Be sure and budget all of the costs which you will incur. These will vary widely from farm to farm. If you are earning several dollars per hour, you may not want to undertake additional projects unless you can make a similar return. However, if you are underemployed, you may be ahead to do your own formula mixing.

Take into consideration your original capital investment. This includes equipment and buildings. On top of this you will have operating costs. Cost categories for buildings and equipment include depreciation, interest on investment, repairs, maintenance, insurance, and taxes—plus the fuel or electric power for your equipment. Labor costs can be figured by multiplying the number of hours by what you consider your time to be worth. Be sure and include your management time. Cost categories for ingredients should include those already outlined plus transportation and shrink. Shrink usually amounts to at least 1½ percent of the total value of the ingredients used.

- Will you be able to produce a ration which will yield feeding results comparable to those from a reliable formula ration? Remember that nutrition is complex. You must have the know-how to evaluate fortifier premixes, follow directions to the letter, and have the machinery necessary for a thorough mixing.

Keep in mind, as Dr. Wingert's study suggests, that swine rations are more critical from a mixing standpoint than are feeds prepared for ruminants such as cattle and sheep. There is no one premix which will adequately meet the nutritional demands of different species of livestock. Don't try to "get by" with a single basic premix for more than one species of livestock or poultry.

Following these guidelines will help you evaluate results like those cited by Dr. Gardner and Dr. Wingert, as they apply to your farm. Since feed is your greatest cost item, the proper evaluation of research results like these offer you the greatest opportunity for a savings.

TABLE 1. "Simple" starter

Ingredient	*Ton mix (lbs.)*
Rolled barley	1000
Wheat bran	200
Cottonseed meal	560
Dicalcium phosphate	20
Trace mineralized salt	20
Aureofac 10	10
Vitamin A (30,000 I. U./gm.)	2.5
Molasses	200

The Paulding, Ohio, Chapter was one of three chapters in Ohio to receive National Gold Emblem award.

Seven Steps to Success

By John Blake

BEING SELECTED one of the top three chapters in the state for the second time in three years is an achievement nearly all chapters would like to attain! This was good, but the 60 members of the Paulding, Ohio, FFA Chapter set a higher goal. We wanted to become a National Gold Emblem chapter.

Just five years ago, vo-ag enrollment at Paulding was at a low point of 28 students. The fault seemed to stem from the inability to attract topnotch students due to lack of interest in the program. A sound program of work was established which provided a base for all FFA activities. Seven steps provided the base which led to our becoming a National Gold Emblem chapter.

Perhaps your chapter can use some of these ideas:

1. *A program of activities board.* This board measures 4- by 4 feet in size and carries the months of the year at the top and the major standing committees on the side. 3- by 5-inch cards are placed in each block of the board stating the duties for the particular committee each month. As the work is accomplished, the card is removed or crossed out.

2. *Merit point system.* This illustrates in bar graph form the accumulative record for individual participation in FFA and vo-ag activities. This device has stimulated interest in the many activities; and believing in the philosophy that you should hang on to anything that works, this merit point system has been revised to include minus as well as plus points.

3. *Election of officers by petition and interviews.* A member must maintain a "C" average in all subjects in order to hold an office. If he should fail to accomplish this, the office is assumed by his assistant. Interviews are conducted in much the same way as the state association conducts its interviews for state officers.

4. *Keep younger members coming.* Nearly the entire slate of officers who led the chapter to the high rating this year were assistant officers who played a vital role in the 1963 award.

5. *Keep finances adequate.* Many chapters lack finances to conduct an outstanding program. From a deficit of $1.68 five years ago, the chapter now maintains a balance of around $1,000 each year. Big incomes stem from patrolling and directing of traffic at the Paulding County Fair and in the sale of hybrid seed corn.

6. *Use money wisely.* The money is well spent for the benefit of both the members and the community. Nineteen

(Continued on Page 48)

He Makes Farm Mechanics

In his search for ways to reduce costs, this Future Farmer decided to build labor-saving equipment in his farm shop.

MICHAEL REYNOLDS, Fitzpatrick, Alabama, National Star Farm Mechanic, learned early that he was the kind of fellow who likes to know precisely how well he is doing at what he sets out to do. Mechanical work around the farm gave Michael assurance of his capacity to make decisions leading to a favorable result. It's hardly surprising that he became Star Farm Mechanic along a determined route to farm establishment. For you see, that was the "favorable result" he was seeking.

Even Michael's neighbors make good use of his handy shop and welder.

Throughout Michael's vo-ag studies, for example, he had been searching for ways to reduce his farm overhead, and he figured that automatic hay loading would be one sure way. By making a bale loader, he could quickly learn if he had made the right decision. The completed loader not only exhibited his vo-ag shop skills but demonstrated that he had made the right decision. He has already constructed another unit and has orders from several neighbors in Fitzpatrick for other loaders when he can find the time to build them.

Michael's desire to be a "doer," whose success could be measured in terms of results, developed early and was noted by a high school principal whose suggestion changed his life. He explains, "I began my farming program at the age of six years by bucket feeding a motherless calf given me by my father. Bucket feeding calves bought from dairy farmers was the means I used to obtain money to buy better beef cattle. While sitting in a science class in the ninth grade, I was asked to take vocational agriculture by the principal. This was the turning point of my high school career and my life."

Young Reynolds' Angus herd began with 95 head, half of which were heifers. These heifers are now producing calves of their own. The increasing herd also gave Michael the idea of purchasing a 101-acre farm of his own. "My grandfather loaned me the money for the farm with the agreement that it would be on the same basis as a loan from the bank," he explained.

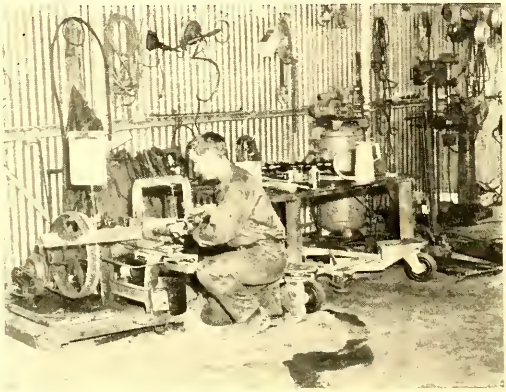
More equipment was also required to handle the cattle. "First, there was fence to build," Michael began. "I have built about 15 miles of fencing, four handling pens, and four squeeze chutes during vo-ag. Then with a few pointers from my dad, I constructed two barns, one measuring 16- by 60 feet and the other 20- by 40 feet."

It wasn't long before Michael became a full partner with his father, giving him access to all of the farm machinery and 1,150 acres of land. Of the total acres, 300 are rented and 101 acres belong to Michael. "Since my father is working away from home, I have full responsibility for the total farming program. I am continually looking for ways to improve," he explained.

One of the first improvements Michael made was the construction of a new farm shop. The building is a 30- by 40-foot shop with concrete slab and steel pipe used for the framing. The sides and top were covered with galvanized roofing riveted to the metal frame.

Michael explains the advantages, "After several machinery breakdowns,

Mechanical ability and a good shop pay off when it comes to making new equipment and maintaining farm machinery.



Michael built an automatic hay loader, a horse trailer, a portable cattle squeeze, and several gates and wagons.

Pay

By Len Richardson

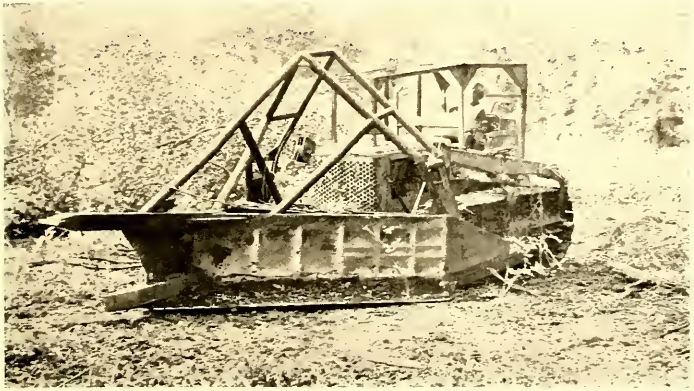
I found that it was cheaper to do my own repairs since we live a long distance from town. All farm machinery is personally checked once a year, usually in the winter. Oil is changed in all tractors every two or three weeks during heavy use. I have completely reworked the motors of four tractors and three trucks in the shop."

In all, Michael has built 18 metal gates, four wagons, two hay loaders, five front guards for tractors, three truck bodies, a horse trailer, a portable cattle squeeze, lifts for tractor and truck, and a cattle sprayer in the farm shop. This doesn't count the equipment he has repaired or custom work he does. Then, too, one can't help but take note of the handsome knotty pine gun cabinet he built for his gun collection.

Today, his program adds up to a net worth of more than $34,000, enough to earn him the title of State Star Farmer. He has also won the Governor's Conservation award and state honors in soil and water management, in addition to farm mechanics.

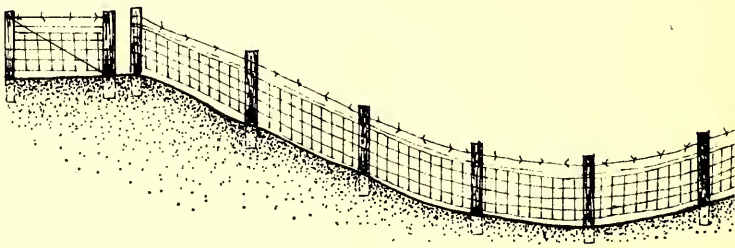
Says Michael, "My vocational agriculture teacher, Mr. John M. Johnson, has been a great inspiration to me. My interests turned from trivial things to farming and cattle as a result of experiences I had in vocational agriculture. After college, I plan a career of farming and Angus breeding using the latest scientific information available."

Michael Reynolds, Fitzpatrick, Alabama, was named winner of the National FFA Foundation Farm Mechanics Award in 1964, as well as Star State Farmer.



Michael has trained himself to operate this bulldozer with a "cutter blade" attachment for clearing land to expand and improve his pasture.

FENCE TO FIT THE



WHEN YOU BUILD fence, you will likely encounter a problem site where general recommendations do not fit your needs. Waterways, changes in soil, or vegetation may require special fencing methods to control livestock properly or to reduce maintenance.

For example, water in permanent streams, irrigation canals, or flood channels must flow with minimum interference from, or damage to, fences. Michael A. McNamee, Wyoming agricultural extension engineer, and Edwin A. Kinne, U. S. Steel Corporation fencing specialist, have outlined major problems you are likely to encounter and ways you can plan your fence to fit the site—a sure way to save time now and prevent trouble later.

Soils

Soils, or lack of them, cause problems for the fence builder. Line fences often cross rock outcroppings or rock ledges. If the rock is loose or soft, remove it with a bar or blast it with dynamite. Before placing explosives, seek assistance from an explosive manufacturer. Needless to say, explosives should be handled with care, and you should stay out of range of falling debris.

You may span rocky areas up to 100 feet with suspension fence or barbed wire. When using woven wire, support the fence across rocky areas with a rock jack. (Illustrations show construction of wooden and steel jacks.) Two steel posts can be used to make steel jacks. Cut off one post just above the anchor. Weld the long portion at a right angle to the second post; weld the short portion to the back side and to the base to form a diagonal brace. Place the side of the post with ridges on the bottom to grip the rock firmly. If an air compressor is available, drill 12-inch holes in the rock for steel posts.

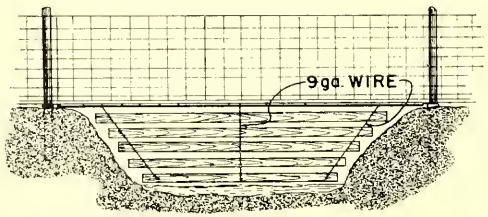
Land Surface

Abrupt changes in the land surface present numerous problems. In general, construct a stretch brace where an abrupt change occurs. Stretch the fence and tie to the brace from each direction. If you change the gage of the wire, tie it off at the brace instead of splicing it.

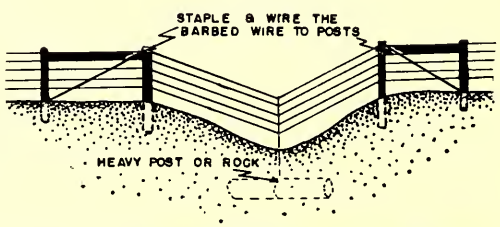
A fence stretched across a narrow depression tends to lift the post in the depression from the ground. Anchor the post or use a rock buried in the lowest part of the depression. Fasten a wire to the fence above and around the rock or deadman and pull the fence down to the desired height. Use this method only if little or no water runs through the depression.

If the depression is deep, stretch the line fence across it and use an independent section in the depression. If water ever flows in the depression, construct a break-away fence. Attach it to posts of the line fence and to two posts set about 12 inches deep in the depression. Tops of the posts in the depression are held together with light gage wire. A flash flood can sweep back this type fence without damaging the line fence. Another type of break-away fence has one end anchored securely and the other held with light gage wire loops.

To cross wide depressions, set stretch braces at each edge and anchor them to the line wire. Then build the fence across the depression in the conventional manner and anchor it to a separate post. Set the post at the down-grade end of the brace, but do not attach it directly to the brace.

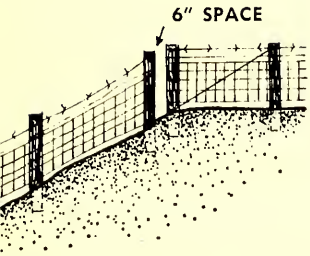


A top-hinged, flexible, self-cleaning headgate for a narrow waterway. Wire can also be used for the panel.



Design of fence stretched across a narrow depression by using an anchor. Use only where little water flows.

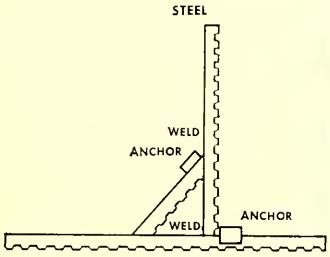
SITE



At small water courses, 20 feet wide or less, continue the fence across the streambed and make a hinged wire or wooden panel to fit the ditch contour. Attach the panel to cables, pipes, or wooden members anchored to the line posts. The posts should be five to six inches in diameter and set 42 inches deep. Add a stretch brace if the span is over 20 feet.

Where snow drifts usually cover the fence, use woven wire with No. 9 top and bottom wires and No. 11 intermediate line wires. Space posts 12 to 16 feet apart. Put wire on the same side of the post as the livestock, except along a lane or driveway where snow may be plowed against the fence.

If weeds are a problem, place the wire on the windward side of the posts to prevent its being pulled loose when the fence fills with weeds. Wooden posts (four inches in diameter) should be placed 20 feet apart. If you use steel posts, spacing of 14 feet is desirable.



Way to construct a steel fence jack. A similar jack can be made from wood.

Mrs. Lyndon B. Johnson and Luci visit with George Fox, Indiana Future Farmer, and Jacquelene Sharp, Girl Scout, on the White House lawn.

Future Farmers Attend Washington Conference

PRESIDENT AND Mrs. Lyndon B. Johnson urged the FFA delegates who attended the National Youth Conference on Natural Beauty and Conservation to dream impossible dreams and to translate the dreams and talk of today into the action of tomorrow.

There were 50 Future Farmers among the 500 delegates who attended the conference in Washington, D.C., June 26-29, representing the nation's ten leading youth organizations.

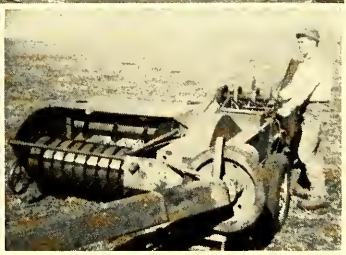
The delegates' opening session for the conference took place on the South Lawn of the White House. President and Mrs. Johnson and Luci were on hand to greet the delegates as well as the President's dogs, the Marine band, and the "Serendipity Singers." Other guests during the conference were Secretary of Agriculture and Mrs. Orville Freeman, and Secretary of Interior Udall.

George Fox, retiring Indiana FFA president, served as co-chairman of the youth conference with Jackie Sharp, Jackson, Mississippi, Girl Scout. Proposals for action were the end result of the meeting, and all the delegates pledged themselves to return to their homes and begin a program of conservation and natural beautification.

The President surprised the delegates and spoke to them at the White House.

Joe Detrixhe, national FFA secretary, photographs another delegate during festivities on the White House lawn.

These Future Farmers took advantage of this chance for a picture of President and Mrs. Johnson at the White House.



Audubon Jr. PCA Loan Committee (top photo). Below left, the committee inspects hogs on which a loan is being made. A loan financed baler on right.

LOANS and SCHOLARSHIPS
— a Chapter Service

THE AUDUBON, IOWA, FFA Chapter has long been recognized as one of the outstanding chapters in the nation. The reason is easy to spot. This chapter provides unique services for its members.

Chapter services at Audubon are designed to give alert, ambitious young men a chance to "go." More often than not, "money" is the fuel needed to ignite these ambitions. For this reason, chapter members, with the help of Advisor James Hamilton, have developed two programs to meet the "money" needs of their members. They are a chapter scholarship and a Junior PCA program.

It's no accident that the two programs have become a very important part of the over-all credit and money management training program for Audubon vo-ag students.

Consider the chapter's scholarship program. Two grants are made available each year through the chapter, subject to satisfactorily raising funds through cooperative land-use projects worked out with local farmers. Each scholarship is for $250. The unique part of the program is this: Applications may be made for either a scholarship to attend an agriculture college or a grant to provide a start in farming.

Who is eligible for a scholarship? Any active FFA member who has earned the Chapter Farmer Degree or higher from the Audubon Chapter may apply. Applicants must show evidence of having been accepted in a college and have plans to take a curriculum in agriculture, or have a written agreement for starting farming. The latter includes a leasing arrangement, or ownership of land, and enough capital available to make a start in farming feasible.

Wise Use Of Credit

Professional farm managers recognize the importance of the proper amount and use of farm credit. Many farmers (especially young farmers) could expand their operations into more efficient units if they understood and used sufficient credit wisely.

The Audubon Junior Production Credit Association was organized to meet this need. The first report of the association showed that just over $6,311 had been loaned to members for expanding their farming programs. The most unusual loan that first year was made in the amount of $1,200 to finance a flock of 1,000 geese.

Marked by growth, the association has now advanced loans totaling more than $19,200. The largest loan is for $5,300 on 25 head of purebred Angus breeding cows. Rick Bybee, the young man holding the loan, is secretary of the Audubon Chapter. He owns 50 head of registered Angus cows and has about 25 calves. His net worth has already climbed to $14,000.

One of the few Junior PCA's operating in the nationwide farm credit system, the Audubon group was the first to be organized in the Omaha District (Iowa, Nebraska, South Dakota, and Wyoming).

To get it started, chapter members met several times with Harlan Production Credit Association Manager Reese Laughlin and other officials to learn more about PCA operations and agricultural credit.

Advisor Hamilton points out one of the less obvious advantages of the association. "Many of the Future Farmers felt that it was too easy to get money to finance an FFA project. A member's father or the local bank would extend the credit with no questions asked," he explained. "This did not provide needed experience in credit policies of a lending institution or the requirements necessary for obtaining credit on an agricultural enterprise."

FFA members handle all of the work connected with the operation. Hamilton acts as an advisor and sits in on all board and loan committee meetings. A five-man FFA board of directors is elected to act as the loan committee, review each application, and decide if the loan is to be granted. Interest rates are set by the members. A service charge of not less than the amount charged by the Harlan PCA is collected on each loan.

Loan requirements set by the members are:

1. Fill out a loan application.
2. Obtain written approval of parents.
3. Obtain written approval of loan committee.
4. Make a budget of income and expenses and have it approved by instructor.
5. Submit the complete project plan application blank including time, size, scope, method of feeding, care and management, and marketing plans.
6. Furnish ample security and sign a note and chattel mortgage.
7. Work out a definite repayment plan.

While these are two of the most successful programs conducted by the Audubon Chapter, they are by no means all. The chapter's success, however, is based on programs like these which stress service to the individual FFA member. Their one aim is "To encourage farm boys to consider a future in agriculture."

My Most Unforgettable Experience

EDITOR'S NOTE: There were a great number of exciting and well-written "most unforgettable FFA experiences" sent in for the contest. Some were serious, others were funny. Some related thrilling FFA events, and others were filled with suspense. The judges selected the first place winner and the two second place winners printed here, along with three other entries they considered worthy of honorable mention.

FIRST PLACE

Roger Hebbut, Scotland, South Dakota

It was Tuesday morning, the second day of the state convention. In the morning session, the State Farmer candidates were to receive their degrees, and the new slate of state officers were to be announced. I was to receive the State Farmer Degree, and I also was a candidate for state office.

I received my degree, shook all the state officers hands, and returned to my seat to wait to see what office I would get. For actually, I had it in the bag. I knew several of the state officers quite well, so I thought I had things going for me. In fact, I had gotten pretty cocky around my friends telling them what I would do as their new state president.

The retiring president started reading the names of the new officers. The sentinel; not me. Glad not to get that office. The reporter; another kid. I wanted an office of more importance anyway. And so it went, up the line till they came to president. As the name was read, I sat in disbelief. I saw another boy rise, and I heard thunderous applause for him. That really knocked me off my high horse! I came back to earth to realize no matter how good you think you are, there is always someone a little better. As I think back about it now, I'm sure losing out as a state officer did me more good than having been one.

SECOND PLACE (Two)

Donnie Ehlers, Green Isle, Minnesota

My most unforgettable experience happened last fall on our farm when we were filling the silo. It was evening, and the sickle bar broke on the chopper. We wanted to work late, so we decided that it could be welded. But nobody wanted to do the welding, because it was a very particular job. Dad thought he couldn't do the job well enough, and the other men didn't want to tackle the job either. Then Dad said, "Come on, Don, you learned how to weld in ag."

Then I had the privilege and honor to do the job before all the men. So you see that we boys in FFA do learn things that are of great value to us in the future. At that time, I was only a sophomore at Arlington-Green Isle High.

Robert Lange, LaPorte City, Iowa

The day that I received the gold charm of the State Farmer Degree was a day that I truly felt proud. But my greatest moment came at the state leadership conference, with the presentation. Meeting fellow FFA members from all over the state, standing before a thousand or more people, many of whom came to see their own son or brother receive this honored award, shaking hands, and receiving congratulations from the state officers and state advisors was surely a great experience.

Probably my biggest thrill came when I received congratulations and was later able to become acquainted with the National FFA Vice President from the Central Region, Jim Stitzlein.

These are only memories now, but they are truly my moments to remember. Moments that not only I, but all the new State Farmers over the entire nation will forever cherish.

I must also remember that this award may not have been possible without the aid and advice given me by my parents and vocational agriculture instructor.

Since these are memories, I must now change my goal from the gold charm of the State Farmer to the gold key of the American Farmer, and hope for even more memorable experiences ahead.

HONORABLE MENTION

Maxie R. Crouch, Jr., Valliant, Oklahoma

My most unforgettable experience happened this year when our chapter put on a two-night rodeo. On the last night, as I was working the stripping shute gate, I noticed a boy having trouble getting a bull out of a pen.

About that time a boy with an FFA jacket came along on a horse. I yelled to him and asked him to work the gate for a minute while I helped with the bull. When I came back in a few minutes and said "thanks," he rode off. I was shocked at what I had done.

As he rode off, I saw on the back of his jacket "DeQueen, Arkansas." All this time, I thought he was one of our boys. I think of this often and wonder if I would have done the same if I had been in his place.

(Continued on Page 53)

A future for you as a

Vo-Ag Teacher

By Leu Richardson

YOU KNOW THAT STUDYING vocational agriculture expands your knowledge. Teaching vocational agriculture has an even more powerful attraction. You continue to learn.

Have you ever thought about becoming a vocational agriculture teacher? Over one-third of the people who complete college become teachers. Many vocational agriculture teachers began where you are now; that is, thinking about what they would like to do in the future, reading about careers, and matching what they like with the requirements for that career.

You may wonder do I qualify? If you can answer yes to the following questions, a career as a teacher of vocational agriculture may be for you.

- Do you like to work with people?
- Do you have leadership capabilities?
- Do you have a real fondness for outdoor life?
- Did you get good grades in high school?
- Do you have initiative and determination?

Dr. R. H. Tolbert, head of the Agricultural Education Department at the University of Georgia sums up the qualities prospective majors should possess as follows: "He should have a good farm background, above average intelligence, good moral character, a willingness to work, freedom from physical handicaps, emotional stability, interest in farming and working with farm people, plus demonstrated leadership ability."

Where then do you go for training in agricultural education? Careers in agricultural education are provided by college programs of teacher education in agriculture and related off-farm occupations.

Dr. Tolbert outlined a prospective vo-ag teacher's program of study. "The program includes broad preparation in animal science, plant science, agricultural engineering, the humanities, and agricultural education. Not only is the graduating major in agricultural education trained to work in the broad field of agriculture, but he is trained to work with people in an educational program designed to help them become more proficient in farming. The training program is well balanced between theory and practice."

David A. Miller, a University of Maryland Senior who has just completed his vo-ag student teaching, discussed his chosen career: "Not until one is totally involved in all areas of vo-ag does one fully become aware of all the pleasures and hard work included in this occupation. Teaching vo-

Teachers Needed By 1969

Dr. Ralph J. Woodin, professor of agricultural education at Ohio State University, cites a recent study which outlines the need for vocational agriculture teachers during the next three years. This survey, which included every state, showed that 1,003 persons entered vo-ag positions last year indicating a turnover of about 9.5 percent. One hundred and twenty teachers were still needed but unavailable September 1. Of 1,038 agricultural education majors qualified in 1965, only 671 or 64.6 percent entered teaching, an indication of the strong demand for these men in other agricultural fields.

Supervisors estimate that the number of new positions will rise from 1,003 in 1965 to 1,471 in 1968-69.

They also indicated that these new teachers would be required for different types of teaching positions. Thirty-nine percent would be teaching production agriculture to high school students, young farmers, and adults. Twenty-three percent would be teaching off-farm agricultural occupations. Eight percent would be teaching agricultural technicians, 5 percent teaching disadvantaged youth, and 18 percent would be teaching in other specialized areas.

In top photo, a teacher of vocational agriculture leads a class discussion.

A vo-ag instructor directs students as they complete a farm shop project.

ag is truly a challenging and rewarding vocation. With one out of every seven people employed in some phase of agriculture, I feel that there is no better opportunity for teaching others about the world's largest industry," he explained.

Miller continued, "Vocational agriculture is on the brink of a great change. Teaching vo-ag is changing from teaching 'farm boys' to teaching 'agriculturalists.' Many of the students today are not from farms or returning to farms as was the case during my days as a student of vocational agriculture. Already in practice are such new programs as farm management and economics, agricultural business, ornamental horticulture, turf machinery and farm mechanics, and conservation and forestry."

In order to maximize these advantages, Miller believes that a vo-ag teacher must be a real "go-getter" who is constantly selling his program to

(Continued on Page 55)

Young Man, Who Are You?

What about you? Do you see the person you think you are, or do you see the person you really are?

By Vivian Briggs

A NEW GIRL COMES to your school. Boys and girls all look at her. Some talk with her. You sit in class with her, and then you discuss her. Someone says, "She has a lot of personality," but someone else says, "She just doesn't have any personality."

Personality is an interesting word. What does it mean to you? Does one person have more or less personality than another? The answer is "no." Personality is not measured by the amount. It is measured by the kind of personality it is.

If you think this new girl has "a lot of personality," it is because she's nice to be with. She makes you feel comfortable. You always seem to say the right words and do the right things when you're with her. It is just the opposite with the person you say has no personality. You don't enjoy being with her. Perhaps she doesn't have a chance, because you never really get to know her.

No two people are alike. We have to work a little harder to know one person than another. One person has different ideas, different interests, and different experiences than the next. John has different abilities and even acts different from Mike. Doesn't it make life more interesting because no two of your friends are exactly like you or like one another?

If you made a definition of personality you would say something like this: Personality is the sum total of your particular ways of thinking, feeling, and acting. It is all you have been, all you now are, and all you hope to be. Everything that has happened to you has gone into your personality. In other words . . . it is you.

The Physical You

What about you? How well do you know yourself? Stand in front of a mirror. What do you see? Do you see the person you think you are? Do you see the person your friends think you are? Or do you see the person you really are?

That last person is the important one, but you may not want to accept him as the real you. In this article and in future issues of your Magazine, we are going to take a good look at you.

First we see the physical you.

You are a short boy, and you wish you were tall and rugged. Perhaps you have straight, brown hair, and you'd like it to be blond and curly. Do you wish your eyes were big and blue instead of the grey ones nature gave you?

Are you a boy with red hair and big freckles who admires shiny, black hair? Perhaps you're too fat or too thin. You may have a nice complexion, or your face may be broken out in pimples. It is possible that you have a physical handicap.

How do you feel about the self you see in the mirror?

Probably you are not 100 percent satisfied. Few of us are, but we must learn to correct those things which can be corrected. We must learn to live with and adjust to those things which cannot be changed.

If you are heavier or thinner than you want to be, go to your family doctor. He will be sympathetic and understanding. He will help you plan a diet to correct your weight problem. Your doctor also will advise you about skin problems. He will tell you that you must keep your skin thoroughly clean. He will warn you to avoid rich and fatty foods. He also may tell you that medical research has shown that an outburst of temper often brings an outbreak of pimples.

A physical handicap may limit some activities. You will need to find interests and develop skills in other activities. If you let yourself, you will find them as satisfying as the others. Don't add an emotional problem through resentment or allow yourself to indulge in self-pity. Learn to live with your handicap and be a healthy personality in spite of it.

Your body, your skin, organs, muscles, hair, and eyes are part of your personality.

The Emotional You

Now let's take a look at your emotional self. This is the "feeling" part of your personality. It is your desires, your hopes, ideas, attitudes, friendships, loves, hates, and interests. Your physical self has an effect on your emo-

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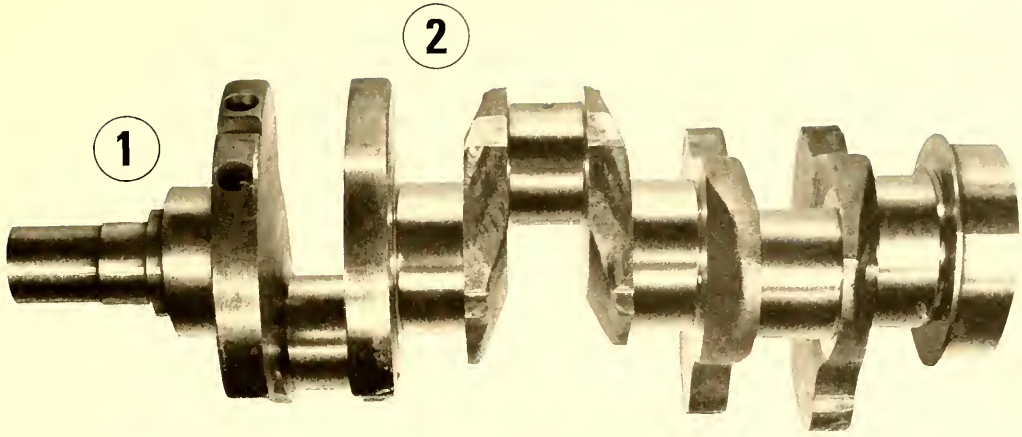

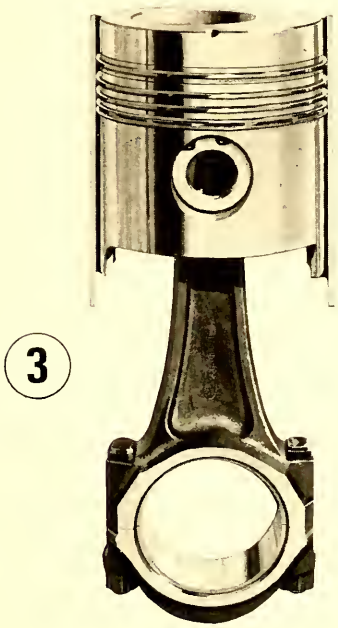

Bigger bearings, greater rigidity help new Ford engines run smoother, last longer.

Size for size, Ford tractor engines rank with the strongest, toughest ever built. And it shows! Crankshaft, massive. Bearing areas, huge. Connecting rods, big and rugged.

1. Crankshaft from Ford 3000 weighs in at 77 pounds. One of the biggest, brawniest ever in a 39-hp tractor. Even greater strength in more powerful models.

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Drive a new Ford tractor. You'll find performance amazing. Extra weight, greater rigidity make these smoother running, longer lasting tractors. And you profit with diesel strength in gasoline models, too. See your Ford tractor dealer today.

Ford

UNCLE SAM

By M. Hall Thompson

THE BOY WAS NINE years old when in the spring of 1775 a spirited horse ridden by Paul Revere came galloping into the village of Menotomy, Massachusetts. The horse clattered up and down the streets as the rider yelled, "The British, the British, the British are coming!"

The boy was Sam Wilson, and he was a lad who desired freedom. As Revere's cries roused him, he took a drum almost as big as he was and, tugging it along, echoed the warning on the village green.

At fourteen Sam enlisted in the Continental Army. Again his fervor and patriotism were noted, and General George Washington soon had him delivering messages for him and his staff. When he returned to civilian life in 1782, he was a man. With his parents he moved to Mason, New Hampshire.

Then in 1789 he and his brother Ebenezer settled in Troy, New York. Though young America was still full of adventure, Wilson wanted to become a businessman. He had a good business head, and he and his brother operated a slaughter house. This venture became very successful for them, and they were noted for their fair dealings.

In 1812 when Congress declared war on England, Troy became a recruiting center and transfer point for military and naval units. Sam was asked to furnish meat for the Army. This he did, and the first contract called for "300 barrels of prime beef packed in full round barrels of white oak." The contractor was a man named Elbert Anderson, and the barrels were thus marked with the letters "EA-US."

At that time the beef was cured by changing it into "corned beef," which meant sprinkling it with "corns" or grains of salt. If not done properly, the meat would spoil. Thus for the Army it had to be inspected to see if it was all right.

When the New York governor and a party of officials went to inspect the meat provisions for the troops, they asked workmen what the initials on the barrels meant. The workmen told them that the letters stood for Elbert Anderson and Uncle Sam Wilson; the latter called Uncle Sam because he was so well liked and respected by everyone, and the "EA" for the contractor.

It soon became an army joke that "EA-US" mean, "Eat Away, Uncle Sam," for to the soldiers Uncle Sam now became the personification of the United States. "Uncle Sam's beef" was a phrase also used in the War of 1812, much as one uses "GI" today, meaning either government issue or gratuitous issue.

The story of Sam Wilson's life, from 1766, when he was born, to his rise in public affection and esteem in Troy, New York, where he became "Uncle Sam," is the story of young America. When he was born, the British North American colonies were some 1,800,000 persons clustered around the eastern seaboard. At his death, the United States was an independent nation ever spreading out with a population of 29,000,000.

Nineteen days after the "US" was identified as Uncle Sam Wilson, the name turned up in a patriotic ballad. By 1813 "Uncle Sam" had caught on as a simile for the United States all over the country. The caricature of Uncle Sam was developed in cartoons and lithographs. The name spread like wildfire, even to other counties. The government seemed to become a beneficent relative to its citizens, an uncle in fact, Uncle Sam.

Sam Wilson continued to thrive—both as a businessman and as a patriotic figure. Before his death, he saw the acceptance of Uncle Sam by magazines and newspapers as a striking symbol of our country. He became the long-jawed Yankee dressed in red, white, and blue, with the long legs, high hat, and a serious, but good humored face.

In 1851 Sam Wilson made a Fourth of July speech in which he uttered words as applicable today as then: "The American Revolution was something new under the sun. It will not be complete until the ideals of freedom, equality, and independence are a reality not only for Americans, but for all the people throughout the world."

Yes, Uncle Sam originally was a real man, and 1966 marks the two-hundredth anniversary of his birth. Sam Wilson was born 200 years ago this September.

Sam Wilson deserves the honor given him. There is something symbolic in his growing up with such good character that soldiers, normally inclined to be critical of their food, had confidence in his initials on their barrels of corned beef.

Sam Wilson, Uncle Sam, the United States!

"His economy drives seem to begin and end with me!"

A MATURE APPROACH TO YOUR MILITARY OBLIGATION

If you're heading for college this fall, you've got a lot on your mind: courses, curriculum, the degree you'll shoot for, the career you plan. But the biggest question of all, and the most important, is what to do about your military obligation.

The answer to that question is just as much in your hands as the answers to the other ones . . . IF you elect to DO something about it.

What? First, look into Army ROTC. Find out, right now, how you can double the value of your college years, get organizational and management training you couldn't buy at any price, earn a second lieutenant's commission along with your degree.

Find out about the extraordinary advantages you'll enjoy as an ROTC graduate, with military experience as an officer. Top management in American business and industry has gone on record with a strong preference for such men to fill positions as rewarding as they are demanding.

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Gentlemen: Please send me my free copy of "Where the Leaders Are."

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City_____ State_____ Zip_____

I plan to attend_____ (College or university)

F-3

Farm Shop Feature

Portable Cattle Stocks

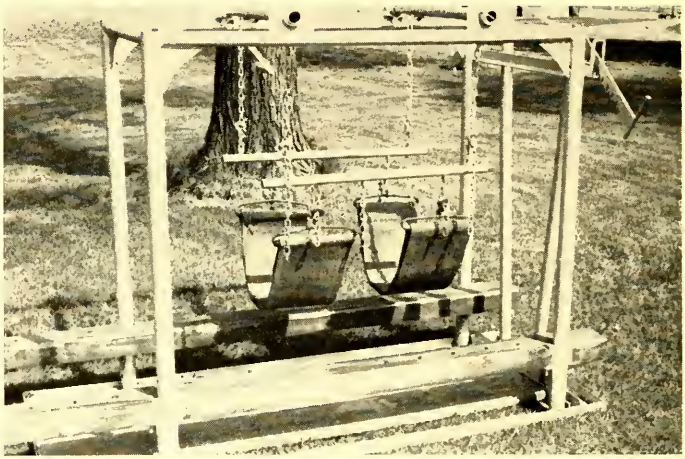
Made to fit a pickup with an 8-foot bed

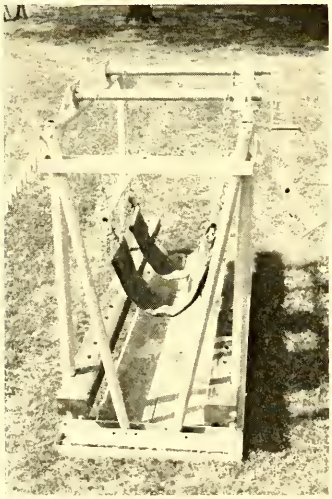
THIS FARM SHOP feature could be the answer to your chapter's problem about getting members' cattle ready for the show ring.

The portable cattle stock will slide easily into a pickup truck and can be taken from one member's farm to another. It is used in trimming feet, clipping heads, or any of the other many tasks needed to prepare cattle for show.

It can be made in the farm shop with new or used materials. It is much easier on the animal and saves a lot of back work.

This idea was submitted by Charles L. Harn, vocational agriculture teacher at Valley Senior High School and advisor of the Fairview, Illinois, FFA Chapter.





Editor's Note: The National FUTURE FARMER *needs farm shop project ideas of items that FFA members can build. We will pay $20.00 for the best idea published in each issue and $10.00 for each additional item used. Submissions must include a clear black and white photo along with a brief yet complete description of materials used and a few pointers on how to build.*

Material List and Suggestions for Construction

Base—Angle iron 3/16″x2″x2″
2 pieces 84″ long
4 pieces 34″ long

Uprights—2″ Pipe (new or used)
4 pieces 60″ long

Crosspieces (welded to uprights lengthwise)
2″ pipe, 2 pieces 58″ long

Crosspieces (mounted on top of frame to roll up chain lift)
1½″ pipe, 2 pieces 34″ long

These pieces mounted in steel plate welded to lengthways cross members.

Plates are ¼″x3½″x6″ with holes cut for 1½″ pipe. 1½″ pipe held in place by collars cut from 2″ pipe and secured with bolts to prevent end play.

Lifting Crank—made from 1″ pipe with slot cut in end to engage bolt inside 1½″ lifting pipe.

Front Crosspieces to hold stanchions
1 piece 3/16″x2x2″ angle and 1 piece ¼″x2″ flat stock spaced far enough apart to permit 1½″ pipe stanchions to move freely.

Holding Stanchions—1½″ pipe
2 pieces 60″ long, bolted to 2 cross angles on bottom of framework.

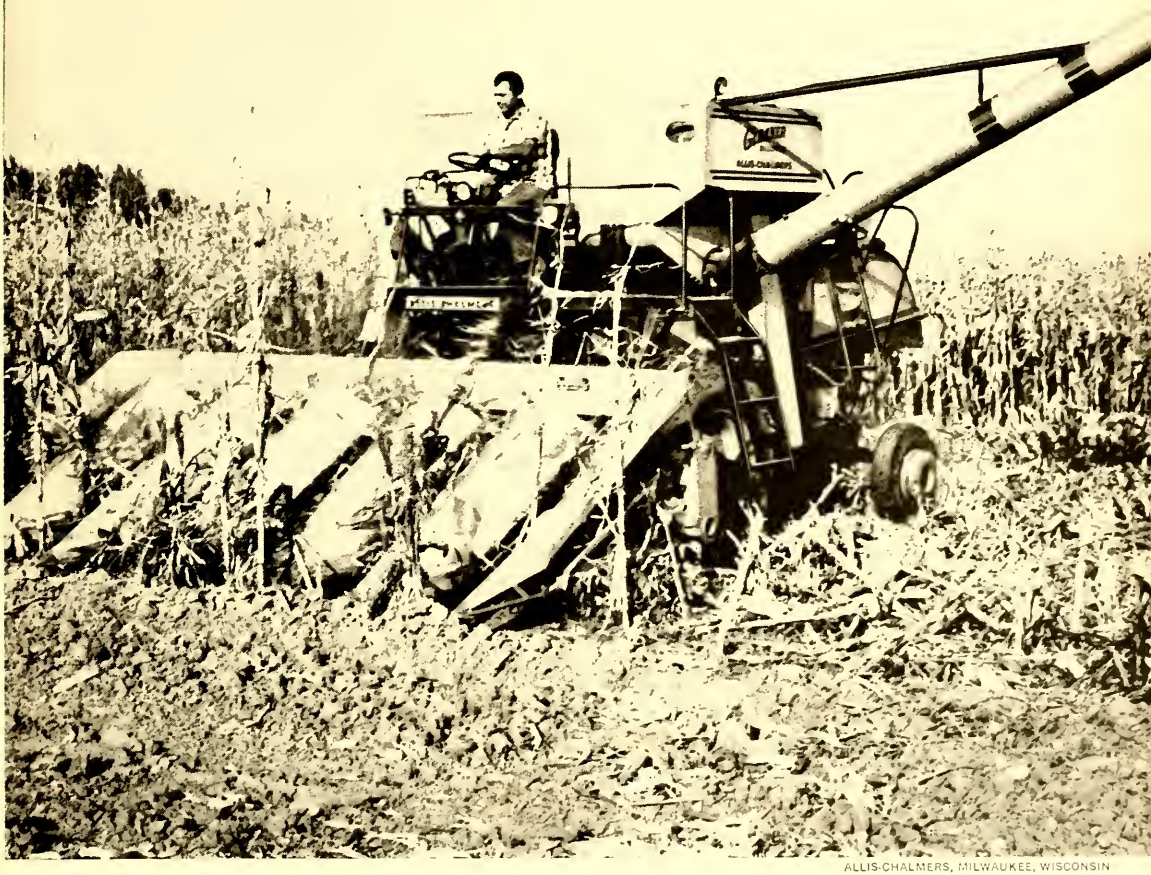
Ratchet Pieces—made to secure and hold stanchions in place
2 pieces ¼″x2¼″x20″ flat stock. Notches cut with hacksaw.

Roll up pipes—held from turning by ratchet devices on top of framework.

Trimming rails—2—4″x6″x8′, treated and secured to 2″ pipe uprights.

Removable Floor—2—2″x12″, cut to fit inside angle iron framework and treated.

Lifting belts—made from any available material and adjustable by use of chains and hooks.



ALLIS-CHALMERS, MILWAUKEE, WISCONSIN

GLEANER combine leadership grows out of a determination to innovate. One example: all three GLEANER models now offer 20″, 30″ or 40″ corn heads—up to 6 and even 8-row for the Model C[II]. Our efforts in this direction are of benefit to all who use our equipment regardless of present row spacings. Could be why three out of the last four Corn Picking Championships were won by GLEANERS!

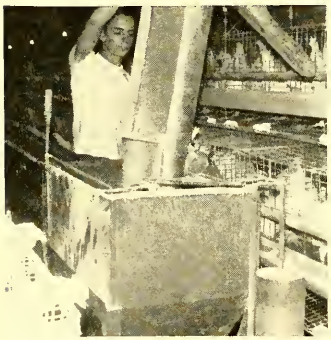
ALLIS-CHALMERS

ALLIS-CHALMERS • THE GLEANER PEOPLE • MILWAUKEE, WISCONSIN

SUCCESS—

even with all his eggs in one basket

Ted gathers eggs at least three times per day and stores them at 50 degrees.



Ted uses this self-propelled feed cart to speed up his feed chores for layers.

By John M. Pitzer

"WE WORK HARD TOGETHER and share in the income." This is the basis for a farming program which won the 1965 FFA Foundation Proficiency Award in Poultry for Ted Zieber.

Ted lives with his parents, Mr. and Mrs. J. J. Zieber, on a 240-acre farm near Bellevue, Ohio. Ted is in partnership with his parents for the broiler and laying flock programs.

His older brother Jerry, a Future Farmer before him, is part of the family operation, and a younger brother is a member of the Thompson FFA Chapter now. The farm has been in the family since 1870. The boys are proud to say they are the fifth generation to live and work on the same farm.

Ted's poultry operation includes a 12,000-bird laying flock and 1,500 broilers. He began with just 300 layers, and his poultry enterprise has grown to its present size in four years. Part of the laying flock is housed in a new cage house built in 1962, in which Ted has part ownership. They built a new house this year for the increased size of the operation. Cages are stacked with three hens per cage. The buildings are equipped with specific lighting, temperature, humidity, and ventilation controls. A special self-propelled feed cart is filled from a four-ton bulk tank. The cart will feed both rows of cages on one trip through. Watering units are automatic. Disease control and prevention, as well as proper culling, are important phases of the operation.

Ted buys the birds at twenty weeks of age, already debeaked and properly immunized. His egg production for the last reporting period was 249.1 per hen. He markets the eggs for a premium price on the local market without a contract. He relies on old customers for advertising both the eggs and broilers.

Eggs are gathered at least three times a day. They are immediately stored in a cooler which keeps the eggs at the proper temperature and humidity. A daily count of the eggs gathered and the laying percentage of the hens is an important part of Ted's records.

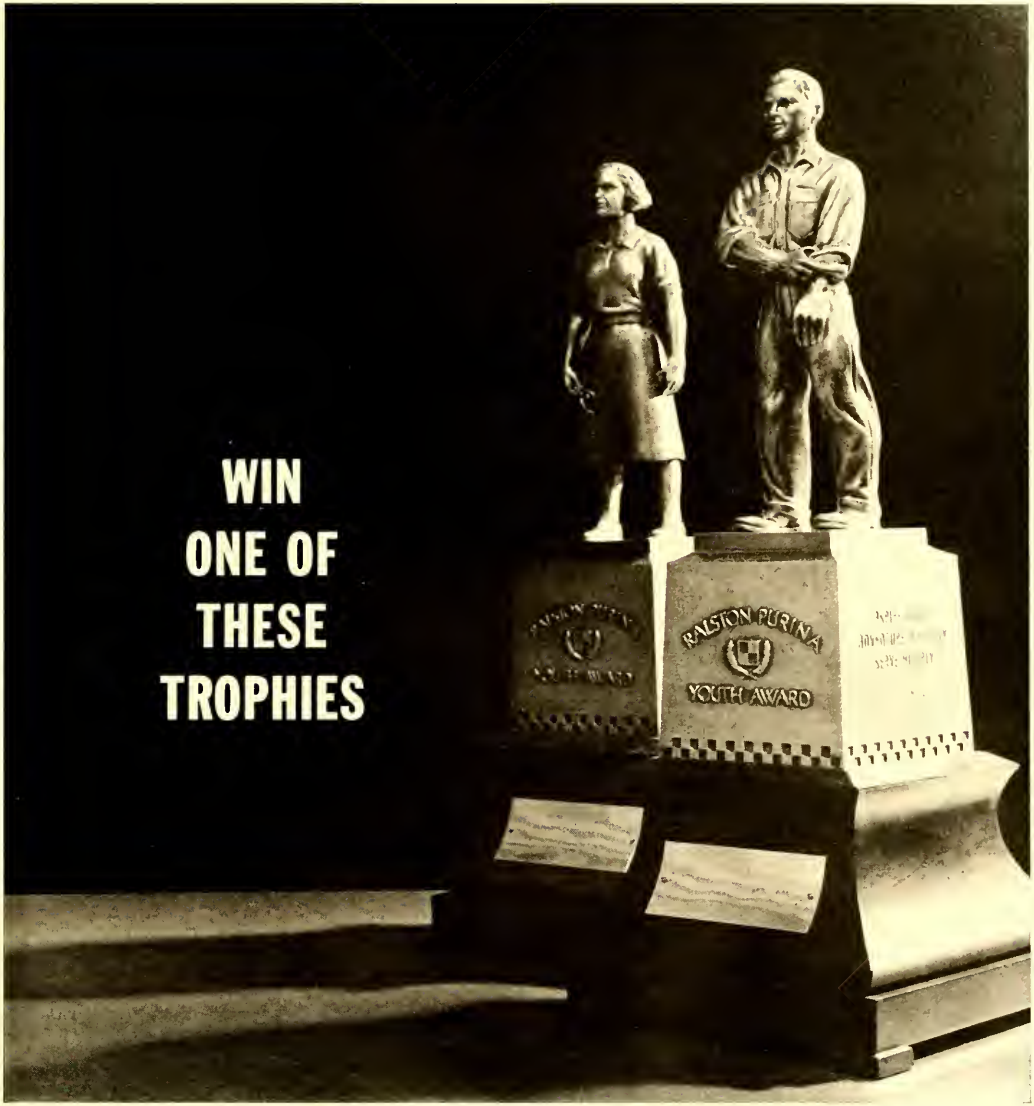
As for his broiler operation, Ted says, "We raise two or three batches of broilers each year which are sold privately. Our customers buy mainly for their freezers, from ten to forty broilers each time. We never sell the broilers under four pounds and very seldom over six pounds, because when we start dressing we are sold out in a month. We hire a man to dress the broilers for 25 cents each, 10 cents more if they are cut up." The broilers are sold for 25 cents per pound live weight, plus dressing charge. They are delivered to the customer's door. Net profit is from 40 cents to 50 cents per bird.

Ted has a long list of FFA, high school, and community activities and achievements. He served as FFA chapter reporter and vice president.

Ted says, "I am interested in poultry. The egg business proved to be very good for us, and I plan to stay in the poultry business with Dad."

Ted started out with only two hens per cage, but is trying three per cage now. Cages are stacked two high in stairstep.

Broilers in Ted's operation are sold at four to six pounds to local customers for home freezing.



The two trophies above, modeled after the famous Danforth Farm Youth statues at Gray Summit, Missouri, and in Washington, D. C., will be offered again this year by the Ralston Purina Company to outstanding young men and women across the country.

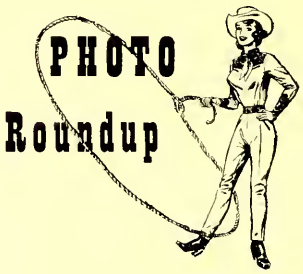
Ask a Purina dealer or a Purina salesman for details on these awards, or write Dept. 259, Ralston Purina Company, Checkerboard Square, St. Louis, Missouri.

PURINA CHOWS

Ripley, West Virginia, FFA Officers installed the first state officers of the newly organized state association of VICA, the Vocational Industrial Clubs of America. "Preparing for Leadership in the World of Work" is VICA's motto.

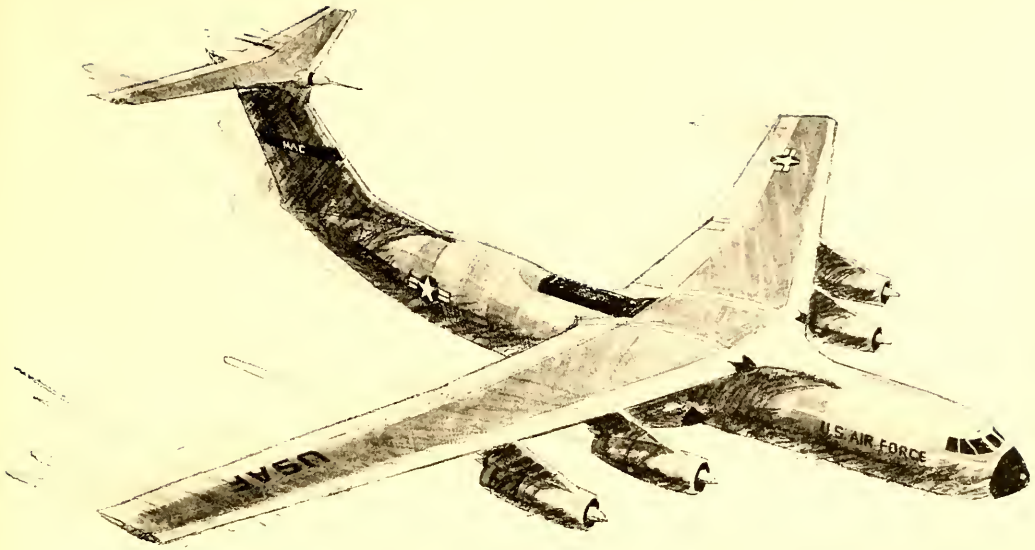
Bakersfield, Calif., FFA gave the YMCA auction a lamb that brought the YMCA camp $1,541; it was resold 41 times.

New Home, Texas, Future Farmers travel in style. Their new pickup has everything—even stereo piped in back.



The long and the short of it is—Lupe Aguirre, Washington FFA'er, has set tall goals for FFA, like the American Farmer Degree of National Officer Larry Craig.

"I'd rather fight than switch" is not the motto of National FFA President Howard Williams. The "shiner" is just a shadow. With him is Gene Warren, newly elected Kentucky FFA president and Star State Farmer. Interviewing them is Farm Director Barney Arnold, who is an Honorary American Farmer.



If you can adjust a clutch, you can learn to maintain a C-141.

Perhaps you've hesitated about looking into an Air Force career. Perhaps you've thought the best Air Force jobs are beyond your reach.

Actually, the skills you now have may be just what's needed for an Air Force specialty!

That C-141 is a mighty big piece of machinery, all right. But if you have the necessary aptitudes, Air Force technical training can teach you all you have to know.

You'll start with elementary theory and procedures. Later you'll work with the actual equipment you'll be using in the field. Technical training courses cost the Air Force thousands of dollars per man. But they are well worth it—both to the Air Force and to you.

With an Air Force specialty under your belt, you have a bright future in a field where the opportunities will keep on growing. You've started on a successful career in the Age of Aerospace!

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Box A, Dept. FF 68,
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Send more information about a career on the Aerospace Team.

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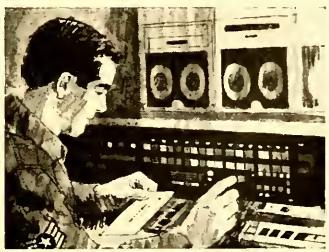
(Please Print)

Address _____

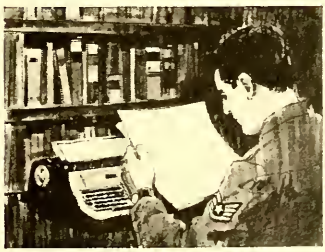
City _____ State _____ ZIP _____

AMERICA'S AEROSPACE TEAM—BE PART OF IT!

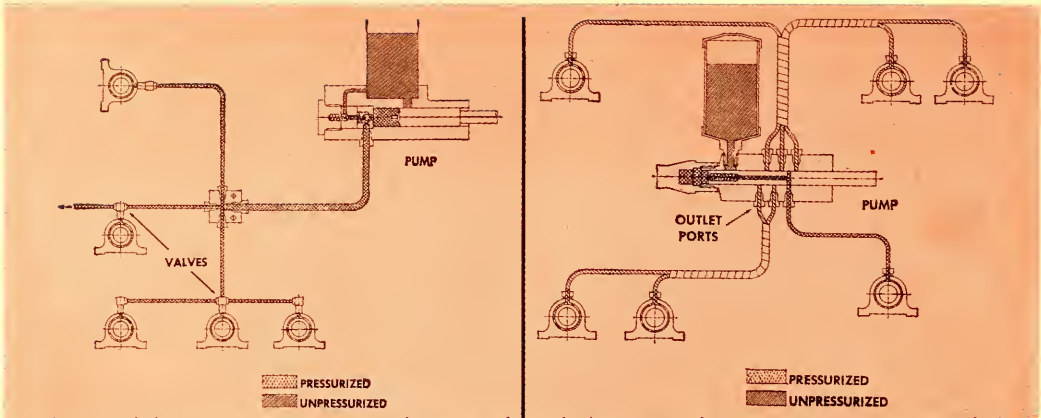
If you can wire a hi-fi amplifier, you may become an expert in aerospace guidance systems.



If you were good in math, you may find a career in Accounting and Finance.



If you worked on your school yearbook or magazine, you can be an Information Specialist.



With a single-line system, a separate valve at each bearing meters lubricant supply from a central pump.

With this system, the pump acts as a metering device, and a separate line is routed from the pump to bearings.

Lubricating Systems

Increased complexity of machinery is making centralized lubricating systems popular. A look at their advantages.

By Melvin Long

LUBRICATION OF FARM equipment becomes increasingly important as the load on bearings and shafts is increased to handle the higher power of present-day tractors. Unfortunately, the increased complexity of the machines themselves often makes the job of reaching the grease fittings with a regular grease gun more difficult.

In some cases, machinery manufacturers are including sealed bearings which do not require lubrication during their normal lifetime service. However, in many situations this approach is not practical, and periodic re-lubrication is necessary.

To make the grease fittings more reachable, they can be arranged in a row (or rows) at any convenient location on the machine. Lightweight tubing connects these fittings with the bearing to be greased. This arrangement, known as bank lubrication, still requires manual operation of the grease gun. Normally, the major critical points to be lubricated are connected to these remote fittings. Other more-accessible fittings are usually greased in the regular manner.

The ultimate in convenience and efficiency is a centralized lubrication system, which provides a small quantity of lubricant to each bearing at frequent intervals. Two such systems are now available on several pieces of farm equipment. In general, it's better if the system is included on new machines as a factory-installed option. In some cases, the manufacturer may provide a kit for field installation on existing machines.

Each arrangement includes a pump, storage reservoir, lines to connect the pump to the bearings, and a means for metering or dispensing the lubricant to the bearings.

The pump and reservoir are usually part of the same assembly, or at least closely coupled. Lubricant level is checked by a dip stick or a follower rod, unless the reservoir is made of a transparent material which permits visual checking.

The pump itself may be powered by hand, by engine vacuum, by hydraulic-system pressure, or by air pressure. Usually, the operator must either work the hand lever or trigger the power source to operate the pump.

The primary differences in the two centralized lubrication systems are in the methods used to meter the lubricant to the bearings.

In the single-line system, a distribution network, which includes a measuring valve at each bearing, is supplied by one line from the pump. On the pump pressure stroke, lubricant is forced from the valve to the bearing. On the pump return stroke, the valve is reloaded for the next cycle.

Primary advantages of this system are:

1. Broken lines cause the system to loose pressure. Thus, any breaks are readily detected.

2. Regardless of the number of bearings lubricated, only one pump is required.

3. If the system includes bearings with widely different lubrication requirements, a wide range of metering valve sizes can be used to meet these requirements.

4. A variety of bearings with lines and valves already installed can be plugged into the central system by use of quick-disconnect couplings. For example, on a combine with two different harvesting heads, each head could be equipped with appropriate valves and lines which could be plugged into the central system when the head is installed on the combine.

In the multiple-line system, the pump is the metering device. Separate lines connect each bearing with openings in the walls of the pump cylinder. The piston contains a cross passage which is connected to the reservoir end of the pump. On the working stroke, lubricant flows to each opening in sequence as the cross-drilled passage goes by. Amount of piston travel between the

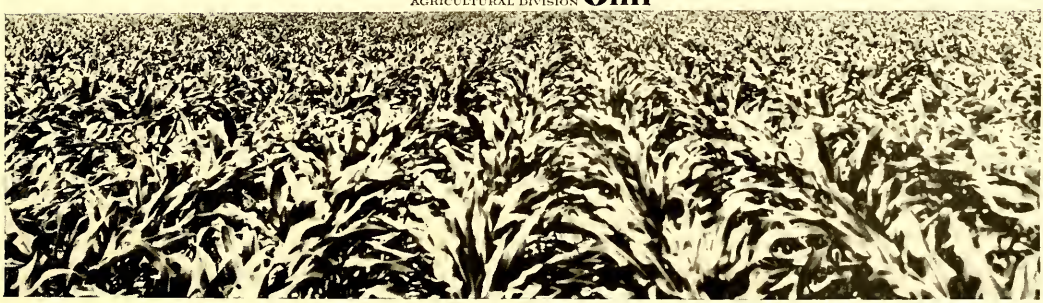
(Continued on Page 54)

"But other seed fell into good ground, and brought forth fruit, some an hundredfold, some sixtyfold, some thirtyfold"

Matthew 13:8

The land was everything in Matthew's day.
So, when he told his story, it was in the language of the land.
Good ground. Fruitfulness. Thirtyfold.
Unfortunately, people don't talk that way anymore.
Which would seem to mean that the land isn't as important as it once was.
But this isn't so.
The land still nourishes us. And its fruits are needed more than ever.
That's why farmers are always looking for better ways to discipline the land.
Cultivate it. Test it scientifically.
Return nourishment to it, so it can yield, again and again.
We've helped, too.
By developing fertilizers to enrich the earth. And pesticides to protect crops.
They have very unbiblical names:
Ammo-Phos®. Urea. DDT. Anhydrous Ammonia. Terraclor®. To name a few.
Any one of them can help give growing power to crops.
So that your pounds multiply. Maybe a hundredfold.

AGRICULTURAL DIVISION **Olin**



LITTLE ROCK, ARKANSAS

Minnesota's Star Dairy Farmer out-squeezed Princess Kay of the Milky Way in the annual cow-milking contest and put the Future Farmers in the lead 7 to 4 in the series.

FFA IN

MINNESOTA—Jerome Bunkowske won the eleventh annual cow-milking contest between Minnesota's Princess Kay of the Milky Way and the State FFA Star Dairy Farmer.

Bunkowske, of Perham, won the event with 2½ pounds of milk compared to one pound turned in by the Princess in the three-minute duel. The contest between Princess Kay and the State Star Dairy Farmer is an annual event at the state FFA convention. The Future Farmers hold a good seven to four lead in the series.

Bunkowske's victory over Mary Ann Titrud, Princess Kay, also earned him the "fringe benefit" of submitting the first entry in the FFA June Dairy Month slogan contest conducted by the Minnesota FFA. *(W. J. Kortesmaki, State FFA Executive Secretary)*

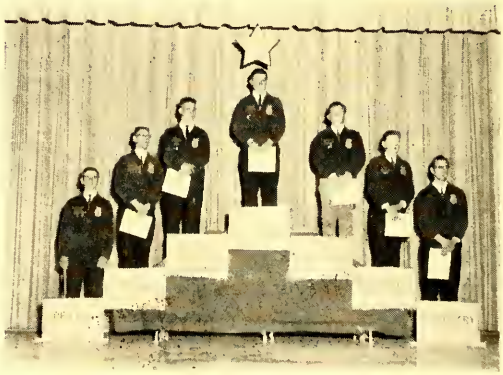
OKLAHOMA—The members of the Yukon FFA Chapter are engaging in a good community service project and putting a little money in the FFA treasury at the same time.

They build twin garbage can racks and distribute them throughout the community. When in use, the racks hold the can securely, keep them off the ground, and discourage raids by neighborhood pets. The legs are driven into the ground far enough to make the rack sturdy.

The racks are made of one-half inch, reinforced rod and are cut and welded by members of the chapter. They are painted with aluminum paint and delivered to those who have requested them. The racks are sold for $4.50 which allows just a little profit over the cost of the metal, welding rod, and paint.

Vo-Ag Instructor Mac DeVilbiss says there is a lot of interest in the community for this useful rack, and the chapter considers the program an ideal community service project. *(Dale Cotton, State Executive Secretary)*

Yukon, Okla., FFA Chapter constructs and delivers these twin garbage can racks throughout their community as a service project. The racks are sold at just over cost.



NEW YORK—This is the way the awards stacked up at the 41st annual state convention. Kenneth MacGibbon, Walton, Star State Farmer, stands at the apex of the National FFA Foundation Awards pyramid flanked by six of the top award winners.

Public Speaking winner Robert Robinson, Gainesville, spoke on the topic "Pesticides Are Here to Stay." He was elected state secretary for next year. Donald Davis, Hamilton, received the Farm Mechanics award based on his work experience program as a part-time mechanic at a farm implement store.

Richard Eaton was named Top Dairy Farmer in the New York FFA. John Good, Perry, was awarded the Livestock Farming award for his beef cattle program. Soil and Water Management winner was Paul Baitsholts, Greenville. The first New York Future Farmer to receive the Forestry award was Thomas Catchpole, Bath.

The Foundation awards were presented by Howard Williams, national FFA president from Olin, North Carolina. *(Ernest F. Nohle, Associate, Agricultural Education)*

ACTION

WISCONSIN—The Wisconsin Association awarded Honorary Wisconsin Farmer Degrees to Governor Warren P. Knowles and Senator William Proxmire (D-Wisc.) at their 1966 convention. Governor Knowles saluted the Future Farmers of his state for the significant role they have played in upholding the position of agriculture and particularly dairy farming in Wisconsin. Wayne Mattison of Hillsboro was named State Star Farmer. He has parlayed a gift calf into a dairy herd now bringing in $1,500 monthly milk checks. Green Hand Steven Greschner of Clear Lake received the $100 prize as winner of the State Public Speaking Contest. Steve spoke on the timely subject "Is the World Capable of Feeding Itself?" His self-confidence and ability to answer questions helped him earn the right to represent his state at the regional contest in Kansas City.

A group of businessmen from Columbus, Wisconsin, attended the convention as special guests of the local FFA chapter in Columbus.

INDIANA—The vocational agriculture department at Sheridan was one of the first in the state to add on-the-job training in agri-business to its curriculum.

The FFA soon realized a need for tying these members closer to the FFA and recognizing their accomplishments. A score card was formulated whereby the Star Agri-Business Boy might be selected. The score card is as follows: Training station evaluation sheets, 30 percent; money earned from agri-business, 10 percent; attendance at FFA meetings, 20 percent; and accomplishments concerning the FFA program of work, 40 percent.

This past December the usual trophies were presented to the Star Green Hand and Star Chapter Farmer during the annual parent and son banquet. However, a new and unique trophy was also presented to Lowell Coppess, the 1965 Star Agri-Business Boy. The award was sponsored by Sheridan merchants. *(Noble W. Ross, Advisor)*

WEST VIRGINIA—Two Normantown Future Farmers registered perfect scores in land judging at the fifteenth International Land, Pasture, and Range Judging Contest in Oklahoma City on April 27-28.

Kelley Sponaugle and Brock Stewart both registered the maximum 240 points. This is the first time a perfect score has been made in the contest. The Normantown Chapter team also copped top honors in land judging. The other team members were Wesley Dobbins, Jr. and Kenneth Greenlief. The team received two trophies plus $200 cash. Mr. P. E. Mason is their vocational agriculture teacher and coach.

Forty-seven teams competed for international land judging honors in the FFA division. This is the second victory for West Virginia Future Farmers. Guyan Valley Chapter won the team championship in 1959. *(W. H. Wayman, State FFA Advisor)*

Pictured is just part of the litter the Bakersfield and the Kern Valley, Calif., FFA Chapters found on "Operation Cleanup" along the 32 miles of the Kern Canyon Highway.

CALIFORNIA—The Bakersfield Chapter and the Kern Valley Chapter joined forces for "Operation Cleanup" and picked up litter along the 32 miles of the Kern Canyon Highway.

The 54 members of the Bakersfield Chapter started at the mouth of the canyon, and the 42 members of the Kern Valley Chapter started at Isabella Dam. The Future Farmers were given special safety briefings and wore bright red vests. Signs at the mouth of the canyon warned drivers to exercise safety. Litter was packed in burlap sacks and collected later by the state highway division.

The chapters met at Miracle Hot Springs, and the parents had a hot meal ready. Final activity of the day was a lively basketball game between the two chapters. *(Bakersfield Chapter Reporter)*

Flanking the advisor of this West Virginia land judging team are Kelley Sponaugle, left, and Brock Stewart, right, who turned in perfect scores in the international event.

Seven Steps to Success

(Continued from Page 25)

members have attended the National FFA Convention during the past three years, and 44 members have attended the state convention. Eight attended the National Convention last fall. Trips to Chicago for the International Livestock Show, Cleveland for major league baseball games, Ohio state athletic events, FFA camp, and many other activities are financed by the chapter with limited expense to the individual FFA member. In addition, community service projects are conducted for the betterment of the community. Much time and effort have been spent by the members in improving the county fair grounds. Also, this past year, the members solicited and obtained ten donors to the Ohio FFA Foundation from the Paulding community, the largest ever.

7. *Public relations important.* A well-informed public is another goal of the chapter. This past year, the chapter reporter won the district award for the third consecutive time and had a total of 106 articles in the area newspapers.

Jim Myers, Paulding president, right, and John McGrath led the Paulding, Ohio, Chapter to the banner year.

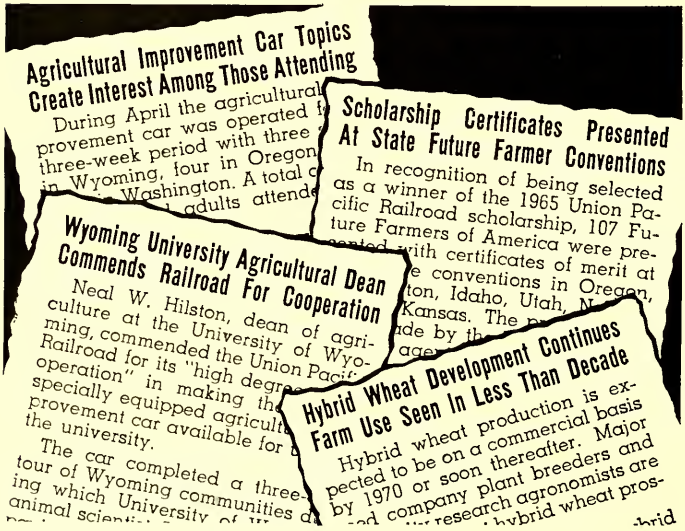
In addition, three TV shows and numerous radio spots were presented during the year. Further interest was generated by having past National FFA President Nels Ackerson speak before 280 people at the annual FFA banquet a year ago.

There was more

Time and space will not permit explaining all the activities and work necessary to become a top chapter. However, one factor is certain. It is almost impossible to have pride in an organization that has done nothing. Extra effort on the part of you (the leaders) and your advisor can instill pride and a feeling of responsibility on the part of every FFA member.

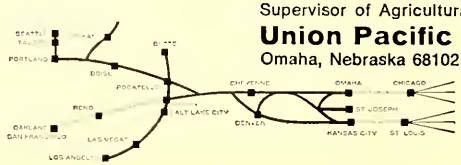
Editor's Note: John Blake is reporter for the Paulding Chapter and wrote this article for The Ohio Future Farmer *where it first appeared. We thought his article merited nationwide attention.*

UNION PACIFIC HELPS YOUNG FARMERS PLAN BRIGHT FUTURES

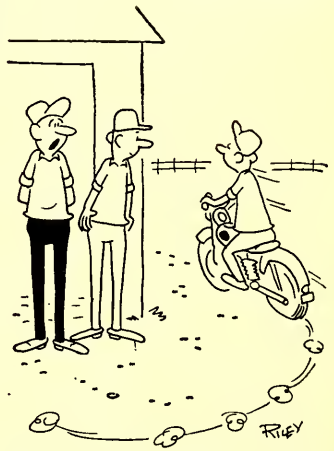

Agricultural Improvement Car Topics Create Interest Among Those Attending
Scholarship Certificates Presented At State Future Farmer Conventions
Wyoming University Agricultural Dean Commends Railroad For Cooperation
Hybrid Wheat Development Continues Farm Use Seen In Less Than Decade

Union Pacific is part of the West where exciting opportunities exist for energetic young farmers. If you'd like to know more about the West, write to us, let us know your special interest — we'd like to share our knowledge, based on almost a century of working with Western farmers and ranchers.

Supervisor of Agricultural Development
Union Pacific Railroad
Omaha, Nebraska 68102



UNION PACIFIC RAILROAD



"And I used to bring the cows in with just a stick!"

Nature's Artillery

FOR EVERY TICK of the clock, 100 gigantic bolts of lightning, electrical energy, bombard the earth. You can't move away from lightning, at least within the U.S. All states have electrical storms.

There are from 40 to 80 lightning strikes per year within the average square mile in this country. You can compute the number of strikes you may expect in your particular square mile by estimating one or two strikes for the number of thunderstorms in the area. If your area, for instance, has 50 storms yearly, expect from 50 to 100 lightning bolts to hit within a half mile of your farm this year.

Farm Buildings

Most vulnerable to losses from lightning's fury are farm families. Lightning causes almost two of every five destructive farm fires, making it by far the leading cause.

It is evident, then, that on farms which have no protection system, or where the system was improperly installed or rendered ineffective by building alterations, losses to lightning-ignited fires are considerably greater than the national average of 37 percent.

The Lightning Protection Institute has checklists available to farmers which can be used to inspect the condition of existing protection systems, or to make sure that a new lightning protection system is properly installed by an authorized firm under proper inspection. Write to Lightning Protection Institute, 53 West Jackson Boulevard, Chicago 4, Illinois.

Personal Safety Rules

If you are outdoors in a threatening thunderstorm, and you notice a sensation that feels like your hair is beginning to stand on end, you may be getting set up to become a lightning target. The best thing to do is to lie down immediately . . . in a ditch or a depression if possible.

Safest places are in a building protected with lightning rods and grounds, in a steel-framed building, or inside your closed car. If you are indoors in an unprotected building, don't stand in doorways or near windows. Keep away from metal objects; the fireplace, the sink, the telephone, and the television set.

Rugged Choice of Outdoor Men Everywhere

For thousands of owners, Triumph means one thing: Reliability. Proven performance, pre-tested at the factory. *Before* you buy. *Before* you ride it on the farm, highway or the trail.

Triumph standards mean high performance under all conditions. Dependability when the weather's at its worst. Get-up-and-go without fussing over the engine. Smooth power regardless of terrain.

To the outdoor man, a Triumph is more than a motorcycle. It's a needed assistant in a job to be done. The one way to get places trouble-free, economically.

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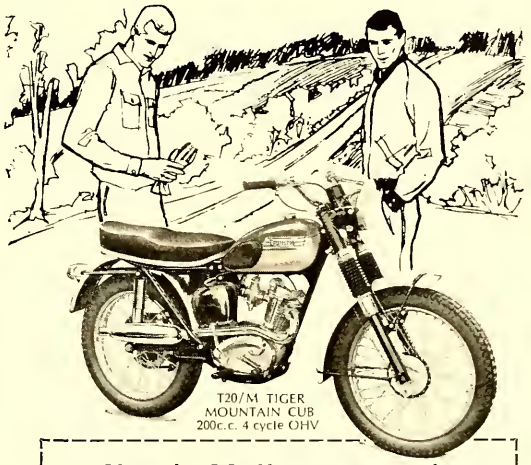

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Cut or Tear

Trying to outwit a sly, alert squirrel is a challenge that any avid hunter will soon learn to appreciate. The author tells the secret of successful squirrel hunting.

By Russell Tinsley

Sit Tight For SQUIRRELS

DON'T BE MISLED by the squirrel's small size. There is a lot of alertness and caution wrapped up in this small bundle of fur. The "bushytail's" sonar ears and radar eyes are sensitive to the slightest hint of unnatural noise and movement, and once a squirrel is alarmed, it is a master of the disappearing act. It can hang on a convenient limb and wisely avoid detection.

The secret of squirrel hunting, then, is to see the "bushytail" before it sights you. This means you should sit tight, quietly, and let the critter move about and make the noise.

One drawback to this, however, is that you can only see part of the squirrel's habitat. Two hunters working as a team, or a hunter and a trained dog, can effectively cover substantial terrain. But the sit-tight hunter can field-spot only as far as he can see, and even with the most effectual weapon the distance he can shoot accurately is limited.

The stand hunter who scores consistently is prepared. A spot to wait is not selected by idle chance. The hunter knows his country. A few days prior to the season opening, he ventures into the woods and scouts the potential hunting territory. He watches for squirrels and searches for a pertinent sign, like the cutting of nut shells beneath a hardwood tree, telltale evidence that "bushytails" are present. Once he's found the feeding area, he picks a stand where he can get a good sight on any squirrels feeding in the area.

The day hunting season opens, he dresses in camouflage-colored clothes (or has built himself some sort of concealed blind where he can remain hidden) and heads into the woods before dawn. It is important to be situated and quiet before daybreak, because squirrel hunting the first two hours of light provides optimum hunting. This is when "bushytails" are most noisy and active. Although squirrels will be out and about all day during over-cast and cool weather, the early-morning hours are still the most productive. Both gray (cat) and red (fox) squirrels are early risers.

Arm yourself either with a shotgun loaded with No. 6 or 7½ shotshells or a .22 rimfire rifle equipped with a scope sight. Where it is safe, I prefer the rifle. In stand hunting most shots will be at sitting squirrels. The .22 rimfire has longer range, and the scope definitely aids in putting the bullet into a vital area, preferably the head where no eatable flesh is destroyed. If you see a squirrel and bag it, mark the spot where the critter fell and remain motionless. Often you can sit in one place and kill several. To get up and go after downed game only alarms other squirrels in the vicinity.

Hunting squirrels is fascinating sport. There's something magic about being in the woods on a cool autumn day, when the deciduous trees are a splash of colorful foliage, watching the dawning of a new day, smelling the freshness of early morning, hearing the varied sounds of an awakening forest, seeing different birds and animals stealing through the sullen trees—and, best of all, trying to outwit the sly, alert squirrel. Despite its size, the "bushytail" does not have to apologize to anyone. It is a challenge that any avid hunter can appreciate.

Dressed in camouflage-colored clothes, a young hunter sits in readiness.

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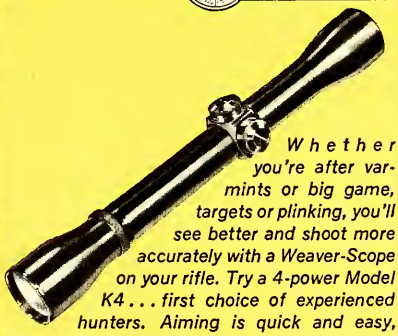

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Keeping Posted

THIS CLEVER announcement board is a big factor in the progress of the Stillwater, Minnesota, FFA Chapter according to FFA advisor, Ray Erwin.

The lines of printing are on separate cards, one card for each "FFA activity" throughout the year. The board is used each week in front of the classroom and is, in addition to daily FFA announcements, read at the beginning of each class by the secretary.

Word Roundup

By Ferris Weddle

The livestock business, particularly during the Old West period, has added hundreds of words and phrases to our language. While many of the words are no longer used extensively, the following terms are still commonplace. Several are strictly western, but others are nationwide in acceptance. Test your knowledge of livestock terminology by placing the numbered words below in the definitions column at right. Check answers on page 55.

WORDS	DEFINITIONS
1. Cavvy	——A fence-jumper.
2. Dock	——A pack saddle.
3. Claybank	——An animal—usually a bull—difficult to control, and given to wandering or destruction.
4. Wether	——A male sheep which has been castrated.
5. Go bronco	——Removal of an animal's tail.
6. Rogue	——Extra horses used on a roundup, or for other purposes.
7. Muley	——A dun-colored or yellowish colored horse.
8. Cross buck	——To go bad. Used ordinarily in connection with a horse, but also referred to men who broke the law in the Old West.
9. Shoat	——Naturally hornless cattle.
10. Breachy	——A young hog of either sex.

"You little smart aleck!"

My Most Unforgettable FFA Experience

(Continued from Page 31)

Charles William Beard, Okolona, Arkansas

Our chapter had changed over to the Future Farmers of America from the New Farmers of America. Our chapter had won first place in the state competition, and we were chosen to sing in the chorus.

We went to Kansas City and sang in the Municipal Auditorium at the National FFA Convention.

I enjoyed the meetings very much. We listened to Vice President Humphrey speak. We were acquainted with boys all over the United States. Our National FFA President, Ken Kennedy, also spoke at these meetings. We also had a mail-order band consisting of boys from different parts of the United States. This was an enjoyable experience for me and for my friends.

I enjoyed singing in the national chorus. I had never in my life sung before so many people. I think they enjoyed our chorus. We also had a chance to pass through a few states that we hadn't visited. I will always remember this experience.

Gayle Fager, Athena, Oregon

My most unforgettable experience happened during my first year of FFA. This was my first project in raising sheep, and I didn't know too much about them. I was expecting a lamb from my ewe any day. Everyday I went down to the FFA barn to check and feed my ewe. This one morning I found a lamb in my pen. Instantly, I thought my ewe had her lamb. I rushed to my FFA advisor's house to tell him the news. He went with me back down to the barn to check the new arrival.

The joke was on me. The lamb that I found was a month-old bummer lamb owned by another boy at the FFA barn. The lamb's tail was already cut. This lamb had been kept at the boy's house, therefore, I didn't know he had taken it down to the barn.

When my FFA advisor told the class, they laughed at me for a week. When the kids in FFA walked by me in the halls, they would say, "How is the new lamb?" At last my lamb was born, and the class stopped teasing me.

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Lubricating Systems

(Continued from Page 44)

openings controls the amount of lubricant which is delivered to the bearings.

Advantages of this type system include:

1. The plunger stroke will not continue if there are any line stoppages caused by plugged bearings or plugged lines. Thus, stoppages can be readily detected.

2. No extra metering valves are required, because the pump serves as the metering device.

3. The pressure in each line is only the amount required to lubricate the bearing to which the line is connected.

4. A broken line does not affect operation of the remaining lines. However, this break is not readily detected by pump response.

How expensive are these systems? Quotation of exact prices is difficult, because different machines require a different number of fittings and vary in the complexity of their installation. As a very general rule of thumb, factory-installed systems range from $3.00 to $6.00 per bearing, depending upon the features built into the particular system.

Thus, system cost for a combine or corn picker may seem relatively high. Against this, however, the possible savings must also be considered.

For example, about one hour is normally required for a thorough grease job on many combines. For adequate lubrication, the job must be done once each day. Multiply your number of combining days by a reasonable hourly rate for your time and the time of the machine. In most cases, only a few seasons' use will pay for the central-lubrication system.

Furthermore, there are several other benefits. Centralized lubrication avoids the disagreeable and inconvenient chore of greasing a piece of complex machinery. The need to crawl under, reach inside, or climb over the machine to reach all the lubrication fittings is eliminated.

In addition, the usual tendency is to pump each bearing full of grease and hold off as long as possible for re-lubrication. This practice often damages the bearing seal, or at least subjects the bearing first to an oversupply and then to a shortage of lubricant. On the other hand, in a centralized system each bearing is supplied a small amount of lubricant at frequent intervals. This arrangement lengthens bearing and seal life and reduces repair expenses.

And don't forget the added trade-in value of a machine equipped with centralized lubrication. Not only does it offer the prospective purchaser the usual desirable benefits during his ownership of the machine, but it also shows that the machine has been adequately lubricated during its use and should, therefore, be in the best possible condition.

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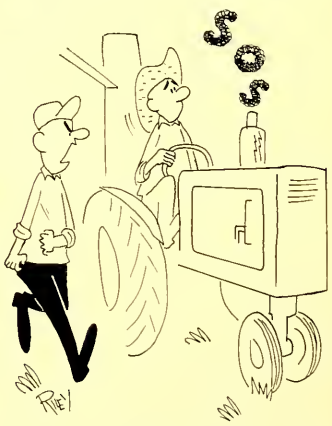

"Didn't I tell you to check the oil and water?"

"At least we know that whatever you've got, it's catching."

Vo-Ag Teacher

(Continued from Page 33)

others. He says, "As part of the selling job, the vo-ag teacher should dress like a professional and be considered equal to other teachers, not 'different.'"

While most vo-ag teachers agree that they should not be "different," they do find a special reward from vo-ag teaching. While it is difficult to pin down, one is impressed with the sense of *accomplishment* established vo-ag teachers derive from their work. It seems that vo-ag teaching provides a man proof of his proficiency, as compared to the more general kind of feeling about how one is doing that is usually associated with teaching. Many vo-ag teachers attribute this to FFA's integral part in the vo-ag program.

Other advantages you will want to consider include:

Finances Besides being a most satisfying and challenging career, the salary is at the top of the pay scale for the teaching profession. In fairness, however, it should be pointed out that if you are materialistically inclined, and desire fame, fortune, possessions, and power, you had best look to another line of work.

Prestige. You are already familiar with the popularity of the vo-ag teacher. This dividend grows out of a situation peculiar to teaching. Parents are interested in their children. Because of this, you will have more in common with members of the community than if you were not teaching.

Creativity. To bring into being produces real joy. As a teacher of vo-ag you will use your creative talents to achieve a unity of growth in your students which leads to maturity of thought and behavior. The feeling you have as you watch a student's reaction to success after a hard struggle cannot be put into words.

Every teacher would probably make his own list of advantages, but accomplishment, prestige, creativity, and finances seem to stand out. In addition, vo-ag teaching leads to other educational jobs, classes are usually small, FFA is a great motivator, vacation is rather liberal, and retirement is excellent.

Where can you go to find more information about teaching vocational agriculture? The person best qualified in the high school to give advice on teaching vocational agriculture as a career is your own vo-ag teacher. He knows the needed personal requirements for agricultural teaching. As one vo-ag teacher told us, "My greatest thrill came when one of my students told me he would like to be an ag teacher." His advice will complement that of the school's guidance staff and your parents. For more information, write to the college or university of your choice which provides teacher education in agriculture.

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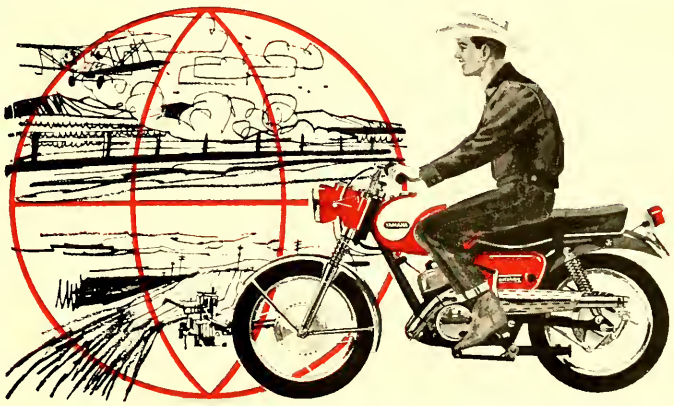
ANSWERS To Word Roundup on Page 52: 10, 8, 6, 4, 2, 1, 3, 5, 7, 9.



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Who Are You?

(Continued from Page 34)

tional self. They both become part of the sum total of you. It is easy to see the physical you but not so easy to see the emotional you.

Your emotional feelings make you act as you do. They are in part responsible for your behavior. Sometimes you do things your better judgment tells you not to do. Perhaps hurt feelings, frustration, or anger make you go ahead and do them. You want to feel independent and grown-up. Some times it seems your parents are keeping you from growing up. Other times you think your parents are making you grow up too fast. You have other feelings—doubts, fears, worries, and misgivings. They all affect the way you act.

It's a good feeling to think for yourself and solve your own problems. It gives you self-respect and assurance. However, some decisions may not be very wise. Aren't you glad your parents are ready to advise and help you? It gives you a feeling of security to be able to talk with them about your problems.

One thing you can know for sure; your parents are behind you in your ambitions, your plans, and your goals. They want you to succeed in those things which are important to you, whether it is your school work, the team, the pep club, your music, or the part-time job you have found. If they question some of your activities, listen to them. It may be they do not understand, or it could be that you can't foresee all that is involved. If you talk it over with your parents, you will clear up mutual misunderstandings. Parents are reasonable people when they understand what you are trying to do.

It helps to know that your parents are not really trying to keep you from growing up. They know the many pitfalls and dangers which, in your inexperience, you may not recognize. Your parents would like to protect you against these pitfalls. At least they want to prepare you for them.

Your brothers and sisters are very important to you. Of course, you have some battles with them, but that's not unusual. Sometimes you may feel that your brother or sister "gets all the breaks." No doubt they often feel the same way about you.

Family loyalty binds a family more closely. Family loyalty will keep you from discussing with outsiders those things that pertain only to your family.

Now that you are growing up, you have more and greater responsibilities. There are responsibilities to yourself, to your family, to your friends, and to the community. If you are to be ready for adulthood, you must learn to carry your responsibilities.

Let's go back and think about these responsibilities.

You have a real responsibility to yourself. You will live with yourself all your life. Do you want to be proud to be you, or will you be satisfied to always fall a little short of your abilities? Do you want to be a dependable person or one people seldom can trust? Do you want to be sought out for friendship or be one who never quite makes the grade? It is for you to decide. You are the one person who has this responsibility for you.

Do you see the emotional you a little more clearly? It is an important part of your personality.

Editor's Note: Vivian Briggs is extension specialist in family life at Kansas State University. In the next issue, she will discuss the social you and the spiritual you.

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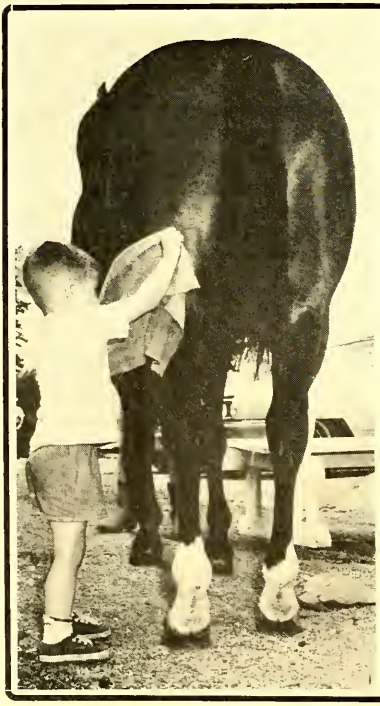

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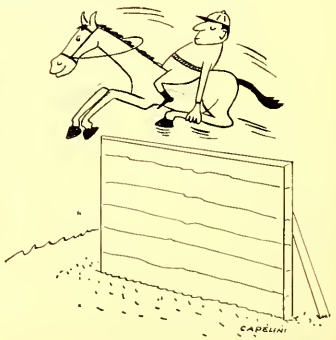


Parliamentary Procedure

By
Dr. Jarrell Gray

DOES THE ACT of voting on an issue give you a sense of pride and cause you to feel a sense of responsibility?

FFA members have long taken pride in the fact that their organization is operated in a democratic manner. For it to do so, many group decisions must be made. Voting is the finalizing act in such a process. It is important, then, that FFA officers and members have a clear understanding of voting—methods, announcement, majority, etc.

There are several methods of voting. These include voice, rising, show of hands, roll call, ballot, and general consent.

It is not uncommon when a voice vote is taken for the president to be unable to determine on which side a majority voted. When this happens, he should immediately take another vote using a method which will permit an actual count of votes; that is, show of hands, rising, etc.

In situations where a two-thirds vote is required, a rising vote should always be taken.

When secrecy is desired in voting, the votes should be taken by ballot. A vote by ballot may be ordered by majority vote.

Until a vote is finally announced, a member may change his vote. After the vote is announced, he cannot change his vote without permission of the group. This may be done by general consent or by a motion to that effect. A member may not be compelled to vote.

A tie vote means that a motion is lost, assuming the motion requires a majority vote.

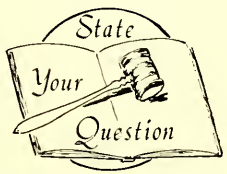
The president is entitled to vote when the vote is by ballot and in all other situations when his vote changes the results. For example, if the vote on a main motion was 12 for and 11 against, it would pass if the president did not vote. If he wanted it to fail, however, he could cast his vote with the negative votes, making it a tie vote and causing the motion to fail. Likewise, if the vote was a tie vote, he could cast his vote with the affirmative votes causing the motion to carry.

The transaction of business is sometimes accelerated by the president requesting that such be approved by "general consent." When this request is made, and there is no objection, approval is granted. If there is an objection, even by just one member, a vote must be taken to determine the outcome.

The president may request action by general consent by stating: "Shall we (state action desired) by general consent?" (If no objection) "We will (state action taken) by general consent."

Yes, voting is important to a democratically operated organization, such as the FFA. It is through the process of voting that one expresses his personal decisions.

(Next issue: "Main Motion.")



Ellensburg, Washington

Q. Is it necessary to obtain a two-thirds majority vote in order to pass any motion concerning money?

Paul Catlin

A. This depends upon whether there are chapter rules specifying what vote is necessary in matters concerning money. Unless there are rules to the contrary, a majority vote is all that is necessary. Rules for spending money may be made in the form of standing rules.

Do you have a question on parliamentary procedure? If so, you can get a direct reply from Dr. Gray, and your question may be selected for this column in the next issue.

Answers are based upon "Parliamentary Guide for FFA" by Dr. Jarrell D. Gray. For direct replies, send your question to Parliamentary Procedure, The National Future Farmer, Alexandria, Virginia 22306. Enclose a self-addressed, stamped envelope.

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SPORTRAIT

By Stan Allen

PERFECTION FOR A major league baseball pitcher is to pitch a perfect game—no hits, no runs, no men on. Jim Bunning, veteran right-hander of the Philadelphia Phillies, is the only National League hurler to throw one in the last 84 years. He threw only 90 pitches in his 1-0 victory over the New York Mets on June 21, 1964.

Jim's first year with the Phillies and his first year of National League competition was 1964. He was obtained from the Detroit Tigers where he had been one of their top pitchers for eight years. A native of Southgate, Kentucky, Bunning was signed by the Tigers while attending Xavier University in Cincinnati, Ohio, on a baseball scholarship. His first stop in the Detroit farm system was with Richmond in the Ohio-Indiana League, winning seven games and losing eight. After five years in the minors, he had his first try in major league play at the end of the 1955 season. Pitching mostly in relief, he won three, lost five, and struck out 37. Jim spent most of the '56 season in the bull pen again, picking up five wins and one loss. Most important, he had 34 strikeouts in 53 innings.

Bunning weighs about 190 pounds, and his 6-foot, 3-inch height is an asset in his sweeping, sidearm delivery. He came up with a good live, sinking fast ball, sharp control, and a good curve when it was working right. His big problem was it didn't work right all the time. Like many players, Jim was determined to come up with another pitch and signed up with a Cuban league to play during the winter of 1956. He reported to Detroit in the spring of 1957 with a good slider in his collection of pitches.

It was just what he needed, and he went on to hurl 20 wins against only eight losses in 1957. He was one of two American League pitchers to win 20 games that year. Jim pitched 267 innings, a league high, in 45 games and complete 14 of the 30 games he started. He fanned 182 batters for second place honors, and his earned run average of 2.70 was third lowest in the league. He was voted to the '57 All-Star team and pitched three perfect innings.

Jim Bunning, Phillies pitcher, is the only National League hurler to throw a perfect game in the last 84 years.

Bunning was a mainstay on the Tiger mound staff for the next six years, pitching 1,496 innings in 229 games. He won 90 of those games, while losing only 73, and fanned 1,153 batters, leading the league in strikeouts twice. He pitched a no-hitter against the Boston Red Sox on July 20, 1958, and came close to another 20-win season in 1962 when he won 19 and lost only 10 games. Bunning won only 12 games while losing 13 in 1963, and Tiger officials began to lose confidence in him. That record plus a gopher ball (home run pitch) problem, bought him a ticket to Philadelphia.

The 33-year-old veteran soon was right at home in the National League winning 19 games against eight losses, and played a big part in the Phillies' run at the National League pennant. Bunning worked in 41 games and was a steadying influence on the team's young pitchers. He struck out 219 batters while walking only 46 in 284 innings, and the sportswriters voted Jim as the National League comeback player of the year. The 1965 season was almost a carbon copy of the '64 season for Jim as he won 19 games and lost nine. He increased his strikeouts to 268 and walked only 62 batters in 291 innings. Jim hurled seven shutouts last year and has a lifetime total of 28. At one point, he won seven games in a row last year. Nearing the mid-season All-Star game break this year, Bunning is third in National League pitchers with 13 wins against only three losses and has a fine 1.87 earned run average. He already has 105 strikeouts in 125 innings.

National League players are glad Jim is on their side now in All-Star play. He opposed them in seven games, giving up four hits and three runs (one unearned). In his appearance for the National League in 1964, he gave up two hits but no runs to the American League batters. Almost 35 now, Jim Bunning already owns most of the honors awarded to pitchers except a World Series record. This could be the season for such an award as the Phillies are up in the league standings. If the Phillies do go to the World Series, Jim Bunning will have a major role in their play.

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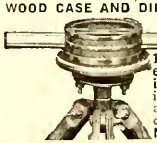

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HAVE YOU HEARD THE ONE ABOUT

A psychiatrist was looking out his window one day and saw one of his patients pulling a string with a toothbrush at the end of it. The doctor, thinking he would trick him, said, *"Are you taking your dog for a walk?"* The patient replied, *"No, it's a toothbrush at the end of a string."* After the doctor left, he turned around and said, *"I think we fooled him Rover."*

Jerry Halloran
Eyota, Minnesota

"You should complain! How would you like cracking this heavy whip all day long?"

First farmer: *"Never did I see hay grow so short as mine this summer."*
Second farmer: *"You think yours is short, I had to lather mine to mow it."*

Mark Shuff
Ville Platte, Louisiana

Sometimes a speech is like a wheel—the longer the spoke, the greater the tire.

Wayne Hutcheson
Jesup, Georgia

New foreman: *"I'm already a big gun in business."*
Boss: *"What do you mean 'a big gun'?"*
New foreman: *"I've already been fired three times."*

Denise Tucker
Oakdale, California

Mrs. White: *"I hear your son is an author. Does he write for money?"*
Mrs. Blue: *"Yes, in every letter he sends."*

Randy Taylor
Thomson, Georgia

Judge: *"You admit having broken into the same dress shop four times. What did you steal?"*
Suspect: *"A dress for my wife, but she made me exchange it three times."*

Robert Faber
Lake Lillian, Minnesota

Man going into fish market: *"Give me the five largest bass in the store."*
Clerk: *"O.K., coming up."*
Man: *"Throw them to me please."*
Clerk: *"Why do you want me to throw them to you?"*
Man: *"I may be a lousy fisherman, but I'm no liar."*

Jim Mosley
Collins, Arkansas

First farmer: *"How's that new neighbor of yours doing—the one that's a college graduate?"*
Second farmer: *"Oh, all right, but when he gets to the end of the field when plowing, instead of saying 'whoa, haw, and gee,' he says, 'Halt Rebecca, pivot, and proceed.'"*

Bill Myers
Rio Grande, Ohio

Laugh and the world laughs with you; moan and you sell a million records.

Margarete Blake
Trenton, Missouri

People are strange. When they are young, girls like painted dolls and boys like soldiers. When they grow up, the girls like soldiers and the boys go for the painted dolls.

Jimmie Porter
Glencoe, Oklahoma

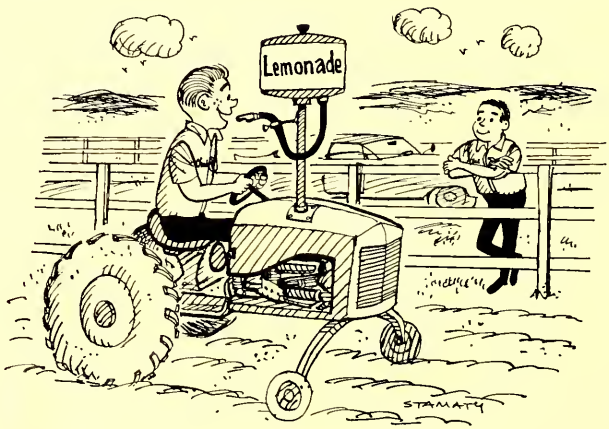
Diets are for persons who are thick and tired of it.

Dan Fletcher
Aitkin, Minnesota

Teacher: *"John, have you read any good mystery books lately?"*
Bill: *"Yes, I'm reading one now."*
Teacher: *"Whats the name of it?"*
Bill: *"Advanced Algebra."*

Dale Brashear
Raymondville, Texas

Charlie, the Green Hand



"I'm going to apply for a patent on it."

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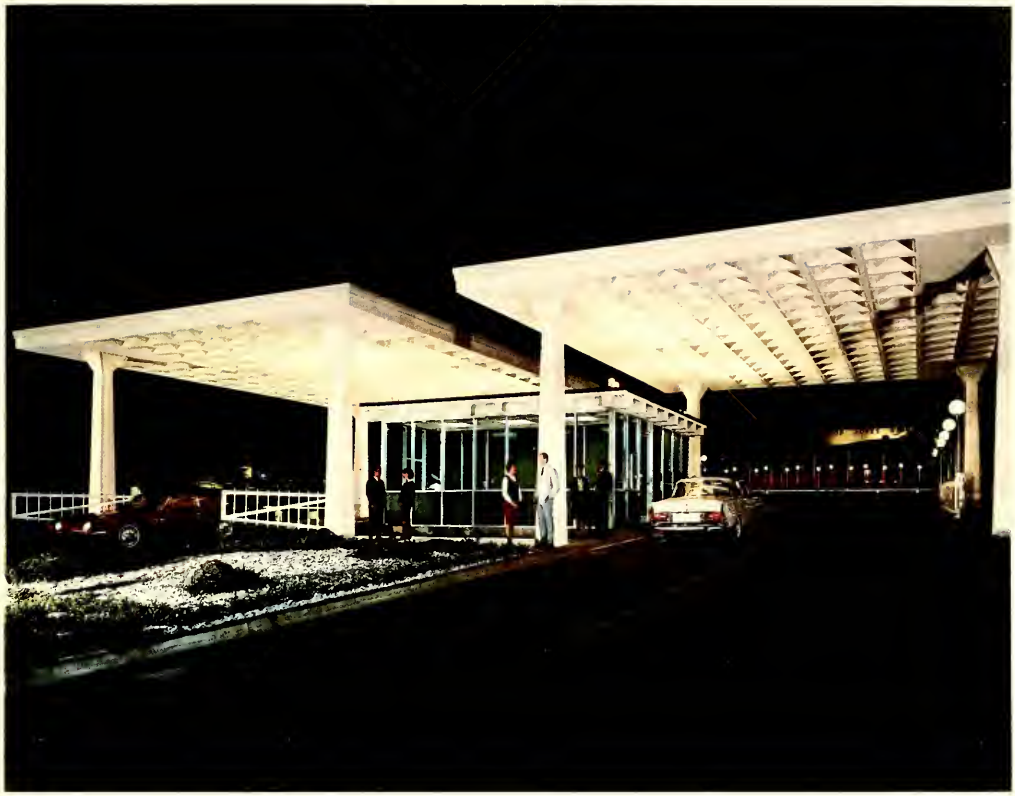

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